

Information Technology High School
Long Island City, Queens County, New York

Periodic Review Report

Voluntary Cleanup Program
VCP #V00366-2

Prepared for

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EXECUTIVE SUMMARY

This Periodic Review Report (PRR) documents the activities subject to the Site Management Plan (SMP) for Voluntary Cleanup Program (VCP) Site #V00366-2 (Site). This PRR covers Site activity from April 3, 2020 to April 3, 2021. The Site is located at 21-16 44th Road in Long Island City, Queens County, New York and is identified as Block 438, Lots 23 and 26 on the New York City Tax Map. A Site Location Map and a Site Plan are provided as Figure 1 and 2, respectively. The Site is regulated by the New York State Department of Environmental Conservation (NYSDEC). The engineering and institutional controls (EC/IC) were implemented and maintained in accordance with the SMP and its revisions approved by NYSDEC on May 31, 2017 and December 18, 2018.

The purpose of this PRR and Annual Certification is to document on-going Site management activities associated with the permanent ECs and ICs in place at the Site, and to certify that these controls are maintained in accordance with the Cleanup Agreement.

Past activities at the Site resulted in the release of volatile organic compounds (VOCs) to the Site soil and groundwater. The primary contaminant identified in the soil and groundwater was tetrachloroethylene (PCE). Excavation activities were completed throughout the Site to remove contaminated source material, but residual contamination (dissolved phase and vapor phase) remained on-site. As a result, several Engineering Controls and Institutional Controls were implemented on-site. To date, the ECs and ICs maintained at the Site are operating effectively as designed and are protective of human health and the environment.

Details of the EC/ICs can be found in the Engineering and Institutional Control Plan portion of the SMP. All components of the SMP, including EC and ICs, are functioning as intended and comply with NYSDEC requirements. Fleming, Lee Shue Environmental Engineering and Geology, D.P.C. (FLS) does not recommend any changes to the SMP or site management procedures.

1.0 SITE OVERVIEW

1.1 Site Description

The Site occupies 0.82 acres and is bound by 44th Road to the north, 44th Drive and an industrial building to the south, an industrial building to the east, and 21st Street and a fast-food restaurant to the west. The boundaries of the Site are more fully described in the metes and bounds site description (Appendix A).

The Site consists of a four-story masonry and stucco structure currently utilized as Information Technology High School (the School). The Site is a former drapery hardware manufacturer and distributor. The eastern portion of the factory was dedicated to cleaning, de-greasing, oil-extraction, powder coating and painting of metal drapery hardware. Prior to this usage, the Site is believed to have contained a metal plating and finishing facility. Both operations are historically known for utilizing chlorinated degreasers.

1.2 Investigation and Remediation

Various Remedial investigations conducted between 1997 and 2002 revealed the presence of VOC vapors under the building slab and in the groundwater. The source of VOCs was determined to be a former drum storage area (outside the footprint of the current school) where localized contaminated soil was identified and removed from the Site. The Site's primary contaminants of concern are PCE and trichloroethylene (TCE). Elevated concentrations of lead were also identified in soil beneath dry drains located under the buildings and in the courtyard.

Remedial excavation took place between December 2001 and August 2002. Remediation removed soil or a combination of soil/ash from several areas around the Site. The following removal of materials took place during that time period:

- Excavations near the former drum storage area removed 25 cubic yards of soil;
- approximately 900 cubic yards of soil/ash were removed from the first floor and basement;
- three basement sumps had sediment removed;
- four excavation pits in the parking lot removed 130 cubic yards of soil; and

- an additional 240 cubic yards of topsoil were removed before the parking lot was capped with a six-inch thick concrete slab.

1.3 Remedial Action Objectives

The Remedial Action Objectives (RAO) for the Site are as follows:

Groundwater

RAOs for Public Health Protection:

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection:

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.

Soil

RAOs for Public Health Protection:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

2.0 REMEDY EVALUATION

2.1 Remedy Performance, Effectiveness and Protectiveness

2.1.1 Soil

In performing the onsite soil cleanup activities, the Volunteer used the NYSDEC recommended soil cleanup objectives, as set forth in TAGM 4046, as the end goal. These established soil cleanup objectives are considered protective of public health and the environment. The cleanup activities performed at the Site fulfilled requirements for compliance with school use being the intended use for the Site. A minimum one to two feet of all exposed surface soils which exceeded the Site background values for contaminants of concern were excavated and disposed of off-site. This included soils originally covered by the components of the development of the Site (building concrete slab and courtyard asphalt). The excavated areas were then backfilled with clean fill material, all of which was below the applicable soil cleanup objectives. A summary of the material and quantities removed from the Site can be found in section 1.4.1 of the SMP.

2.1.2 Groundwater

Initial groundwater characterization sampling began in September of 2002. Seventeen (17) monitoring wells were used for characterizing the groundwater beneath the Site. Since that time NYSDEC has requested several groundwater monitoring wells be discontinued and/or abandoned. Currently, nine (9) monitoring wells (MW-1, MW-6, MW-7, MW-8, MW-9, BMRW-1, BMRW-2, BMRW-3, and RW-1) are utilized for groundwater elevation measurements and groundwater sampling activities. The current monitoring well network is shown on Figure 2.

The suspected source area is believed to be the former drum storage section of the Site. This theory is generally supported by the dissolved phase contaminant distribution throughout the Site, with the highest concentrations of PCE and TCE being detected in the vicinity of the former drum storage area and lower concentrations being detected along the perimeter of the Site. The exception being concentration fluctuations within MW-1 located on the north side of the Site.

The groundwater sampling results from this reporting period (April 2021 – April 2022) demonstrate variability in VOCs concentrations across the Site. The two groundwater sampling events showed variability in total VOC concentrations in bedrock wells and a general increase in

contaminant concentrations in overburden wells. Generally, contaminant concentrations appear to be isolated to the center of the Site from the former drum storage area extending north towards 44th Road. The Site analytical groundwater results from the two semi-annual groundwater sampling events conducted in this reporting period are presented in Table 4. Groundwater results are further discussed in section 4.3.

2.1.3 Soil Vapor

Onsite soil vapor data was collected as part of the remedial investigation activities. The investigation consisted of collecting soil vapor samples from thirty-three (33) geoprobe locations in August of 2002. The sampling was conducted prior to the removal of the old concrete slab within the building. The onsite soil vapor contamination consisted of VOCs consistent with the source area (PCE contamination originating from the former drum storage area). The highest concentration of PCE detected in the soil vapor (80,000 ppbv) was detected at 13.5 ft below ground surface (bgs), just above the groundwater table and adjacent to the former drum storage area. The remaining sampling locations throughout the Site had VOC concentrations significantly lower than the maximum concentration found. Soil vapor concentrations from the first floor and basement ranged from non-detect to 851 ppbv and non-detect to 11.6 ppbv, respectively.

After removal of the concrete slab, another round of soil vapor sampling was conducted. The results of the second investigation showed that the highest concentration of PCE detected was now 1,180 ppbv. The removal of the slab and off-gassing caused a large reduction in the first floor. PCE concentrations in the basement remained relatively low after the removal of the slab, ranging from non-detect to 16.4 ppbv.

Currently, sub-slab vapor concentrations are monitored through the sampling of the SSDS effluent. Contaminants of concern, PCE and TCE, had concentrations below the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion matrices dated October 2006 (updated May 2017) when analyzing the SSDS effluent. The highest concentrations observed during this reporting period were non-contaminants of concern including isopropyl alcohol (174 $\mu\text{g}/\text{m}^3$), ethyl acetate (42.5 $\mu\text{g}/\text{m}^3$), and acetone (41.3 $\mu\text{g}/\text{m}^3$). In both the June 2021 and December 2021 SSDS sampling events, PCE concentrations were non-detect.

3.0 INSTITUTIONAL AND ENGINEERING CONTROLS COMPLIANCE

3.1 Institutional Controls Requirements and Monitoring

A series of ICs are required by the SMP to protect human health and the environment. Adherence to these ICs on the Site is required by the environmental easement and are implemented under the SMP. ICs identified in the environmental easement may not be discontinued without an amendment to or extinguishment of the environmental easement (Appendix A). The ICs are as follows:

- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor, and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site management must be reported to NYSDEC at the frequency and in a manner as defined in the SMP;
- On-site environmental monitoring devices, included but not limited to, groundwater monitoring wells and soil vapor points, must be protected and replaced as necessary to ensure continued functioning in the manner specified in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;

The Site has an additional series of Institutional Controls in the form of Site restrictions. Site restrictions that apply to the Site are:

- Use of groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for the intended use;
- All future activities on the Controlled Property that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions in this SMP;
- The Controlled Property may be used for unrestricted use, provided the long-term Engineering and Institutional Controls included in the SMP remain in use;

- In addition to required environmental monitoring, New York City Department of Education (NYCDOE) had proposed to perform indoor air sampling within the school at the request of the community.

Site-wide inspections will be performed annually by a Professional Engineer or by a person under direct supervision of the Professional Engineer. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, a Site inspection form will be completed as provided in Appendix B. The completed Institutional and Engineering Controls Certification Form is provided in Appendix C. A Photographic Log is provided in Appendix D and documents Site conditions at the end of the reporting period. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that Site records are up to date.
- A comprehensive Site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the PRR. The inspections will determine and document the following:
 - Compliance with requirements of the SMP and the Environmental Easement; and
 - If Site records are complete and up to date.

3.2 Engineering Controls Requirements and Monitoring

3.2.1 Composite Cover System

Exposure to remaining contamination soil/fill is prevented by a composite cover system built on-Site. This composite cover system is comprised of concrete-covered sidewalks, a concrete with overlying paving stone courtyard, and an interior flooring system composed of: (from bottom to top) 1 foot gravel, a 40-mil HDPE liner, a protection board layer, and a steel mesh reinforced 8-inch-thick concrete slab as well as a spray-on epoxy vapor barrier along the western basement wall adjacent to the first floor.

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with the SMP in perpetuity.

3.2.2 Sub-Slab Depressurization System

The sub-slab depressurization system was installed beneath the composite cover system under the building. The system consists of 17 horizontal pipe legs (11 beneath the first floor and 6 beneath the basement) installed within the approximately 1-foot thick pea gravel layer beneath the High-density polyethylene (HDPE) liner. The solid piping consisted of 10-foot lengths of 2-inch inside diameter (I.D.), Schedule 40 polyvinyl chloride (PVC) pipe. The screened areas at the end of each pipe run consist of two 10-foot lengths of 2-inch I.D. 20-slot Schedule 40 PVC slotted pipe. After the elevations of the pipe were set, it was covered over with pea gravel and the interior grade was leveled off.

A map showing the location of the system shed as well as the locations of the horizontal SSDS pipe legs is shown in Figure 3. Additionally, a process and instrumentation diagram of the treatment system and the shed layout are shown on Figures 4 and 5, respectively.

Procedures for operating and maintaining the SSDS are documented in the Operation and Maintenance Plan (Section 4 of the SMP). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the Site, has occurred.

3.2.3 Vertical Soil Vapor Extraction System

A vertical soil vapor extraction system consisting of four vertical SVE wells was installed in the former drum storage area (source area). The vapor extraction wells were constructed of 4-inch diameter PVC screen and riser pipe. The screen was set from approximately 21-23 ft bgs to 3 ft bgs. The geologic log and construction details for vapor extraction wells VE-1 through VE-4 are presented in the Remedial Investigation Report dated October 2002. The wells were connected to a 15-horsepower blower which places a vacuum on each well. The air stream was then forced through vapor phase carbon prior to discharge to the atmosphere. The remedial goals for the termination of the SVE system included: residual contamination concentrations in ground water and soil vapor: (1) are cleaned up to levels below NYSDEC standards (TOGS 1.1.1 values for

groundwater and NYSDOH vapor intrusion guidance matrix for soil vapor), and (2) have become asymptotic over an extended period of time After written approval from both NYSDEC and NYSDOH, the SVE system was shut off in October of 2010.

3.2.4 Groundwater Pump and Treat System

The groundwater pump and treat system (GWTS) extracting groundwater from RW-1 located in the former drum storage area (source area) was installed to address the remaining residual contamination onsite. Recovery Well, RW-1 was constructed of 8-inch diameter PVC screen and riser pipe. The screen was set from approximately 21 ft bgs to 9 ft bgs. The geologic log and construction detail for RW-1 is included in the Remedial Investigation Report dated October 2002. A submersible groundwater pump was installed within RW-1 and pumped water to the treatment shed where there was a groundwater treatment system consisting of four, 200lb liquid phase carbon units. After flowing through the carbon units, the treated groundwater was discharged to the New York City combined sewer system. The remedial goals for the termination of the GWTS included: residual contamination concentrations in ground water and soil vapor: (1) are cleaned up to levels below NYSDEC standards (TOGS 1.1.1 values for groundwater and NYSDOH vapor intrusion guidance matrix for soil vapor), and (2) have become asymptotic over an extended period of time. After written approval from both NYSDEC and NYSDOH, the GWTS system was shut off in June of 2014.

3.3 Corrective Measures

3.3.1 Institutional Controls

There were no deficiencies observed during the reporting period that would require corrective measures for the ICs.

3.3.2 Engineering Controls

Composite Cover System

There were no deficiencies identified that would require corrective measures for the composite cover system.

Sub-Slab Depressurization System

There were no deficiencies identified that would require corrective measures for the SSDS.

3.4 Institutional and Engineering Control Certification

During the reporting period, FLS conducted an annual inspection of the Site. In the annual inspection the institutional and engineering controls were in place and effective. All requirements are being met and FLS does not recommend any changes. The signed Engineering Control and Institutional Control certification form is included in Appendix C.

4.0 MONITORING PLAN COMPLIANCE

The SMP was originally approved in 2008. In May 2017, the Site consultant changed from LBG Engineering Services, P.C to Arnold F. Fleming, P.E and Fleming-Lee Shue Inc. who then took over site management responsibilities. FLS requested alterations to the monitoring schedule and Site Management Plan modification request was submitted to NYSDEC. Subsequently, the groundwater monitoring frequency was reduced from quarterly to semi-annual. Additionally, the sub-slab depressurization system monitoring frequency was also reduced from monthly to semi-annual. The May 31, 2017 NYDEC Approval letter is provided in Appendix E.

A reduction in the monitoring well network was also requested by FLS in 2017. Monitoring wells MW-2, MW-5, MW-10, and MW-13 were approved to be removed from future monitoring events in a December 19, 2018 NYSDEC Approval letter. The monitoring wells were subsequently decommissioned. The approval letter is also provided in Appendix E.

4.1 Components of the Monitoring Plan

Tables 1 and 2 describe the monitoring requirements and monitoring frequency by media as approved in the SMP.

Table 1 – Monitoring Requirements by Media

Media	Frequency	Analysis or Measurement
Groundwater	Semi-annually	TCL VOCs
Soil vapor effluent	Semi-annually	TO-15 VOCs

Table 2 – Monitoring Requirement by Remedial System

Remedial Technology	Frequency	Parameter(s)
Active SSDS Components	Semi-annually	Vacuum, flow rate (cfm), VOCs (ppm)
Composite Cover System	Annually	Intact

4.2 Summary of the Monitoring Completed

Table 3 below describes the monitoring tasks completed during the reporting period.

Table 3 – Monitoring by Reporting Period

Monitoring Task	Frequency	Description
Groundwater sampling	Semi-annually	Collect groundwater samples for required analyses (see Table 4 for sample results).
Groundwater elevation measurement	Semi-annually	Collect depth to water measurements at all monitoring wells (see Section 5.3.2).
SSDS monitoring	Semi-annually	Collect vacuum, flow rate, temperature, and PID readings (ppm) from each leg.
Composite Cover System	Annually	Inspect the condition of concrete slab and foundation walls.

4.3 Groundwater Monitoring

The Composite Cover System prevents exposure to contaminated groundwater and the SSDS prevents inhalation of volatiles from contaminated groundwater. Inspection of the slab and foundation walls found both elements in very good condition with no leakage of groundwater into the building. The SSDS is operating as intended and preventing any exposure to subsurface contaminants.

Initial groundwater characterization sampling began in September of 2002. Seventeen (17) monitoring wells were used for characterizing the groundwater beneath the Site. Since that time NYSDEC has requested several groundwater monitoring wells be discontinued and/or abandoned. Currently, nine (9) monitoring wells (MW-1, MW-6, MW-7, MW-8, MW-9, BMRW-1, BMRW-2, BMRW-3, and RW-1) are utilized for the semi-annual groundwater elevation measurements and groundwater sampling activities. The current monitoring well network is shown on Figure 2. The groundwater monitoring program involves the following:

- Measurement of groundwater field parameters including pH, dissolved oxygen (DO), total dissolved solids (TDS), conductivity, oxidation-reduction potential (ORP), turbidity, salinity, and temperature to determine groundwater conditions; and
- Collection of groundwater samples analyzed for VOCs to evaluate chlorinated VOC concentration trends and monitor natural attenuation.

During the reporting period groundwater sampling events were conducted on the following dates:

- September 17, 2021
- April 5, 2022

4.3.1 Semi-Annual Groundwater Sampling Event (September 2021)

Groundwater samples were collected from eight (8) on-Site monitoring wells (MW-6, MW-7, MW-8, MW-9, BRMW-1, BRMW-2, BRMW-3 and RW-1) and one off-Site monitoring well (MW-1) on September 17, 2021.

4.3.1.1 Groundwater Elevation Measurements

Prior to sampling, a synoptic round of water-level measurements was collected using a water-level meter. In both events, groundwater elevations ranged from 3.60 ft-above mean sea level (amsl) (MW-1) to 3.86 ft-amsl (BRMW-3). Historically, groundwater flow has varied, with local groundwater flow direction being towards the south. Contour maps showing groundwater flow within overburden and bedrock wells are presented in Figures 6 and 7, respectively.

4.3.1.2 Groundwater Sampling Analytical Results

The groundwater analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (TOGS Standard) and are summarized in Table 4. September 2021 groundwater results are shown on Figure 8. Analytical groundwater results from the September 2021 show the majority of VOCs at all monitoring well locations were non-detect or below the TOGS Standard. The exception being PCE and its associated degradation daughter products (i.e., TCE and cis-1,2-dichloroethene).

Generally, concentrations of PCE during the September 2021 sampling event have either decreased or remained stable. In the September 2021 sampling event, PCE was detected in eight out of nine of the monitoring wells sampled and ranged from non-detect (MW-7) to 1,042 µg/L (BMRW-2). The mean and median PCE concentrations were 223.3 µg/L and 94.5 µg/L, respectively. Historic low concentrations of PCE were reached in MW-1 (22.7 µg/L) during this event and represent a 99.6% decrease from the historical maximum concentration. Conversely, concentrations of PCE increased during this event within all bedrock wells including BMRW-1 (126 µg/L; 32.7 %), BMRW-2 (1040 µg/L; 109%) and BMRW-3 (376 µg/L; 35.7%).

Similarly, analytical results show that TCE was detected in eight of nine of the monitoring wells sampled and at concentrations exceeding the TOGS Standard in four out of the nine wells sampled. Concentrations of TCE ranged from non-detect (MW-7) to 127 µg/L (BRMW-2) in the September 2021 event. TCE concentrations exceeded the TOGS Standard at RW-1 (10.4 µg/L) and within bedrock wells BRMW-1 (7.1 µg/L), BRMW-2 (127 µg/L) and BRMW-3 (79.4 µg/L). The mean and median TCE concentrations were 26.0 µg/L and 3.3 µg/L, respectively. Concentrations of TCE increased during this event within all bedrock wells including BMRW-1 (7.1 µg/L; 7.6 %), BMRW-2 (127 µg/L; 22.1%) and BMRW-3 (79.4 µg/L; 22.9%). Concentrations of TCE in overburden monitoring wells varied, but are largely stable when compared to previous events.

Concentrations of cis-1,2-Dichloroethene (cis-DCE) ranged from non-detect (MW-1, MW-6, MW-7, and MW-8) to 49.1 µg/L (RW-1). Cis-DCE exceeded the TOGS Standard in BMRW-2 (20 µg/L), BMRW-3 (15.4 µg/L), and RW-1 (49.1 µg/L). Similar to PCE, the highest concentrations of daughter products TCE and cis-DCE appear to be localized to the center of the Site near the former drum storage area.

In general, the September 2021 analytical results show concentrations of contaminants of concern PCE and TCE varied, but generally remained stable as compared to the previous and remain below post-GWTS maximum concentrations. Concentrations of PCE reached historic lows at MW-1, while some select overburden wells saw increases in PCE/TCE concentrations. A majority of the remaining solvent contamination appears to be localized within the bedrock wells in the center of the Site which is believed to be the former drum storage section of the Site.

4.3.2 Semi-Annual Groundwater Sampling Event (April 2022)

Groundwater samples were collected from eight (8) on-Site monitoring wells (MW-6, MW-7, MW-8, MW-9, BRMW-1, BRMW-2, BRMW-3 and RW-1) and one off-Site monitoring well (MW-1) on April 5, 2022.

4.3.2.1 Groundwater Elevation Measurements

Prior to sampling, a synoptic round of water-level measurements was collected using a water-level meter. In both events, groundwater elevations ranged from -0.05 ft-above mean sea level (amsl) (MW-1) to 2.85 ft-amsl (BRMW-2). Historically, groundwater flow has varied, with localized groundwater flow direction being towards the south. Contour maps showing groundwater flow within overburden and bedrock wells are presented in Figures 9 and 10, respectively.

4.3.2.2 Groundwater Sampling Analytical Results

The groundwater analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (TOGS Standard) and are summarized in Table 4. April 2022 groundwater results are shown on Figure 11 Analytical groundwater results from the April 2022 conducted during this reporting period show the majority of VOCs at all monitoring well locations were non-detect or below the TOGS Standard. The exception being PCE and its associated degradation daughter products (i.e., TCE and cis-1,2-dichloroethene).

Generally, concentrations of PCE during the reporting period have either increased or remained stable. PCE was detected in all nine of the monitoring wells sampled and ranged from 40.1 µg/L (RW-1) to 1,360 µg/L (MW-1). The mean and median PCE concentrations were 398.8 µg/L and 140 µg/L, respectively. Concentrations of PCE in MW-1 increased from 22.7 µg/L (a historic low in the last sampling event) to 1,360 µg/L. The high variability in this well has been observed before (April 2019 and April 2020) and may be attributed to seasonal exposure from an off-site source. Overall, overburden wells experienced a somewhat anomalous increase in PCE concentrations while concentrations of PCE in bedrock well either decreased or remained stable.

Similarly, analytical results show that TCE was detected in all nine of the monitoring wells sampled and at concentrations exceeding the TOGS Standard in eight out of the nine wells. Concentrations of TCE ranged from 0.97 µg/L (MW-7) to 84.6 µg/L (BRMW-2) and the median and mean concentrations for TCE were 8.6 µg/L and 21.6 µg/L, respectively. In general, concentrations of TCE in overburden wells increased slightly, but appear relatively stable while bedrock well concentrations either decreased or remained stable.

Concentrations of cis-1,2-Dichloroethene (cis-DCE) ranged from non-detect (MW-7) to 73.3 µg/L (MW-1). Cis-DCE exceeded the TOGS Standard in five of the nine monitoring wells sampled. Similar to TCE, the median and mean concentrations for cis-DCE are 5.3 µg/L and 22.7 µg/L, respectively. The highest concentrations of daughter products TCE and cis-DCE appear to be localized to the center of the Site near the former drum storage area and MW-1 on 44th Road. Overburden and bedrock wells exhibited an increasing or stable cis-DCE concentration trend.

Overall, concentrations of PCE and related chlorinated daughter products increased compared to the last sampling event. Several wells with sustained low concentrations of PCE saw sudden increases during this event including MW-1 (22.7 µg/L to 1,360 µg/L), and MW-7 (non-detect to 140 µg/L). Sudden increases in concentrations of PCE within the overburden suggest the potential presence of an off-Site source. Despite relative increases of PCE, concentrations largely remain well below the post-GWTS historical maximum concentration (19,000 µg/L PCE recorded at MW-9 during the September 2014 sampling event).

Generally, solvent contamination appears to be localized to two distinct areas, the bedrock wells in the center of the Site and a separate off-site source affecting overburden near MW-1 on 44th Road. The suspected on-Site source area is believed to be the former drum storage section of the Site. This theory is generally supported by the dissolved phase contaminant distribution throughout the Site, where the highest concentrations of PCE and TCE have been detected in the vicinity of the former drum storage area and lower concentrations detected along the perimeter of the Site. As discussed, since 2016 PCE has continued to degrade across the Site, including bedrock wells. As natural attenuation of PCE on Site continues, decreases in concentrations of PCE is expected although with some seasonal variability.

Semi-annual groundwater monitoring will continue in accordance with the approved modified SMP to further assess groundwater quality and the potential for off-Site sources impacting the Site.

4.4 Composite Cover System

Annual inspections of the composite cover system were conducted as required in the SMP. The annual inspection was conducted on April 8, 2022. No cracks, fissures or other deficiencies were observed in the composite cover system and it is operating as designed and protective of human health. Annual Composite Cover System inspection sheets are included as Appendix C.

The Composite Cover System and SSDS prevent both exposure to soil and exposure to any soil vapor. The slab and foundation walls of the building are in very good condition with no bare soil exposed. The SSDS is operating as designed and prevents any exposure to contaminants. SSDS and Soil Vapor monitoring events were conducted during the reporting period on the following dates:

- June 4, 2021
- December 9, 2021

4.4.1 Semi-Annual SSDS Monitoring Results (June 4, 2021)

In the June 2021 Operation, Maintenance and Monitoring (OMM) event, Photo-Ionization Detector (PID) concentrations (recorded for each individual SSDS leg as well as the SSDS effluent manifold) were 0.0 ppm (parts per million). SSDS effluent sample results were non-detect for both contaminants of concern PCE and TCE. However, several other compounds were detected in the effluent in low concentrations including toluene ($7.2 \mu\text{g}/\text{m}^3$), methylene chloride ($6.9 \mu\text{g}/\text{m}^3$), hexane ($5.3 \mu\text{g}/\text{m}^3$), benzene ($1.9 \mu\text{g}/\text{m}^3$), and xylenes (total, $1.8 \mu\text{g}/\text{m}^3$). Table 5 shows all SSDS Effluent Vapor Results during the reporting period. The laboratory analytical results identified several VOC concentrations detected in the effluent sample collected on June 4, 2021. The highest concentrations observed were ethyl acetate ($42.5 \mu\text{g}/\text{m}^3$), acetone ($41.3 \mu\text{g}/\text{m}^3$), and ethanol ($33.9 \mu\text{g}/\text{m}^3$). Contaminants of concern, tetrachloroethylene (PCE) and trichloroethylene (TCE), both had concentrations of non-detect. Toluene ($7.2 \mu\text{g}/\text{m}^3$) and hexane ($5.3 \mu\text{g}/\text{m}^3$) were also detected in the effluent sample at low levels consistent with previous sampling events. The

majority of these compounds were detected at similar or lower levels than previous sampling events. PCE and TCE were detected at a lower concentration when compared to the previous event (December 2021), and remain below the New York State Department of Health's (NYSDOH) background guideline levels of PCE in air ($30 \mu\text{g}/\text{m}^3$).

4.4.2 Semi-Annual SSDS Monitoring Results (December 9, 2021)

In the December 2021 Operation, Maintenance and Monitoring (OMM) event, Photo-Ionization Detector (PID) concentrations (recorded for each individual SSDS leg as well as the SSDS effluent manifold) were 0.0 ppm (parts per million). SSDS effluent sample results were non-detect for both contaminants of concern PCE and TCE. However, several other compounds were detected in the effluent in low concentrations including methylene chloride ($6.6 \mu\text{g}/\text{m}^3$), toluene ($2.7 \mu\text{g}/\text{m}^3$), and hexane ($1.7 \mu\text{g}/\text{m}^3$), Table 5 shows all SSDS Effluent Vapor Results during the reporting period. The laboratory analytical results identified several VOC concentrations detected in the effluent sample collected on December 9, 2021. The highest concentrations observed were isopropyl alcohol ($174 \mu\text{g}/\text{m}^3$), acetone ($32.1 \mu\text{g}/\text{m}^3$), ethanol ($21.7 \mu\text{g}/\text{m}^3$), and ethyl acetate ($15 \mu\text{g}/\text{m}^3$). Contaminants of concern, tetrachloroethylene (PCE) and trichloroethylene (TCE), both had concentrations of non-detect. Toluene ($2.7 \mu\text{g}/\text{m}^3$) and hexane ($1.7 \mu\text{g}/\text{m}^3$) were also detected in the effluent sample at low levels consistent with previous sampling events. The majority of these compounds were detected at similar or lower levels than previous sampling events. PCE and TCE were detected at a lower concentration when compared to the previous event (June 2021), and remain below the New York State Department of Health's (NYSDOH) background guideline levels of PCE in air ($30 \mu\text{g}/\text{m}^3$).

4.5 Indoor Air

Indoor air monitoring in the School is performed to verify the SSDS is functioning as designed and remains protective of human health in indoor air. According to the SMP, sampling is conducted by the NYC Department of Education (NYCDOE) to address the concerns of the community. The indoor air sampling results are reviewed by NYSDEC and NYSDOH.

4.5.1 Indoor Air Results

FLS has requested a copy of the indoor air sampling results from the NYC School Construction Authority to be included as a part of this report. However, at the time of submittal for this PRR, FLS was informed that indoor air sampling was not conducted during the reporting period. A copy of this correspondence is included in Appendix E.

4.6 Monitoring Deficiencies

Daily monitoring inspection sheets were not been provided by school maintenance staff. However, the Site is equipped with a Sensaphone telemetry system that constantly monitors system operations and alerts the appropriate parties in the case of an alarm.

4.7 Conclusions and Recommendations for Changes

No changes are recommended at this time.

5.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

5.1 Components of the O&M Plan

5.1.1 Sub-Slab Depressurization System

The active SSDS is designed to run continuously and without an operator. All manufacturers' product data, manuals, and drawings related to the active SSDS components are maintained on-Site and available for reference in the event that troubleshooting, adjustments or repairs are necessary.

Routine equipment maintenance and inspection will be conducted on the active SSDS in accordance with the manufacturers' products requirements/recommendations. Semi-annually, a qualified environmental professional will perform an inspection consisting of the following:

- Take vacuum, flow rate, temperature, and photoionization detector (PID) readings from each leg of the SSDS.
- Take an effluent vapor sample and analyze for TO-15.
- Visual inspection of all accessible piping, gauges, fan, and other components. Any faulty components will be repaired or replaced. If there is any indication that the fan requires repair, it must be returned to the factory for repair as it has no user-serviceable parts.
- Determine if any HVAC modifications were made that may affect the operation of the active SSDS.

In the event that the warning device is triggered, which may indicate reduced effectiveness at the operating conditions, or the system becomes damaged the following actions will be taken:

- A qualified professional will inspect the system to determine the cause of damage or reduced performance; and
- after making any repairs, the system will be restarted as described in the SMP.

5.2 Summary of O&M Completed

5.2.1 Sub-Slab Depressurization System

As required, FLS personnel conducted an inspection and maintenance of the SSDS on June 4, 2021 and December 9, 2021. FLS received alarms for low vacuum on April 29, 2021, October 26, 2021, November 19, 2021, and December 7, 2021. FLS responded on the same day and was able to perform routine maintenance on the blower's electrical components and vacuum was adequately restored. SSDS OMM Forms are included in Appendix F. The extraction blower requires little or no maintenance to perform as designed. Maintenance activities completed include keeping the filters clean and the moisture separator empty. Flow rate, temperature, and photoionization detector (PID) readings were taken from each leg of the SSDS as well. A vapor sample was collected from the effluent side of the SSDS and analyzed for VOCS by United States Environmental Protection Agency (USEPA) Method TO-15.

5.2.1.1 June 2021 SSDS Effluent Sampling Results

A vapor sample was collected from the SSDS effluent according to the sampling schedule as presented in the Site Management Plan Modification Summary dated December 2018. Analytical results from this event are summarized in section 4.4.1. The majority of these compounds were detected at similar or lower levels than previous sampling events. PCE and TCE were detected at a lower concentration when compared to the previous event (December 2020), and remain below the New York State Department of Health's (NYSDOH) background guideline levels of PCE in air ($30 \mu\text{g}/\text{m}^3$). The active operation of the SSDS combined with the existing soil vapor barrier mitigates the potential for any soil vapor intrusion into the building and the engineering controls in place remain protective of human health. Table 5 summarizes the soil vapor concentrations for the effluent air samples collected from the SSDS. Copies of the laboratory analytical reports are included in Appendix G.

5.2.1.2 December 2021 SSDS Effluent Sampling Results

A vapor sample was collected from the SSDS effluent according to the sampling schedule as presented in the Site Management Plan Modification Summary dated December 2018. Analytical results from this event are summarized in 4.4.2. PCE and TCE were detected at a lower concentration when compared to the previous event (June 2021), and remain below the New York

State Department of Health's (NYSDOH) background guideline levels of PCE in air ($30 \mu\text{g}/\text{m}^3$). The active operation of the SSDS combined with the existing soil vapor barrier mitigates the potential for any soil vapor intrusion into the building and the engineering controls in place remain protective of human health. Table 5 summarizes the soil vapor concentrations for the effluent air samples collected from the SSDS. Copies of the laboratory analytical reports are included in Appendix G.

5.3 Evaluation of Remedial Systems

5.3.1 Sub-Slab Depressurization System

Based on the flow rate, temperature, and photoionization detector (PID) readings taken from each leg of the SSDS during semi-annual inspections, the SSDS is functioning as required. The most recent TO-15 sample results showed that contaminants of concern, TCE and PCE, had concentrations below the detection limit.

5.4 Monitoring Well Abandonment

No monitoring wells were abandoned during this reporting period.

5.5 Waste Disposal

No waste was disposed of during this reporting period.

5.6 O&M Deficiencies

There were no deficiencies in complying with the O&M plan during this PRR reporting period for any of the ECs except those mentioned in section 3.3.2

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Compliance with the SMP

Following the implementation of the onsite EC/ICs, the Site has been maintained under a regularly scheduled Operation, Maintenance and Monitoring (OMM) program as outlined in the approved SMP and NYSDEC-approved modifications. The current OMM program consists of:

- Daily Site walkthroughs completed by onsite custodial personnel (Inspection forms not provided by school staff);
- semi-annual treatment system monitoring of the SSDS;
- semi-annual groundwater sampling program; and
- Annual inspection of the Site Composite Cover to ensure it is functioning as designed.

Based on the evaluation of the monitoring and OMM data, FLS concludes that all of the EC/ICs are in place and remained effective during the reporting period.

6.2 Performance and Effectiveness of the Remedy

The remedy has been effective in reaching and maintaining its stated objectives. The contaminated soil was excavated per the approved RAWP and the soil cleanup goals were attained in most instances. The composite cover system and SSDS provide complete protection against remaining contaminant and eliminate any exposure pathway. Both the ICs and ECs are in-place mechanisms designed as permanent protections against exposure to remaining contaminant. Semi-annual groundwater monitoring following removal of the contaminant mass has demonstrated significant and sustained decreases in groundwater concentrations of contaminants.

6.3 Future PRR Submittals

The next PRR is due no later than May 3, 2023 and will cover the reporting period April 3, 2022 to April 3, 2023.

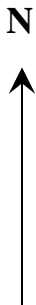
Tables

Table 5 - 2021 SSDS Effluent Vapor Results
Information Technology High School
Voluntary Cleanup Program
VCP #V00366-2

Sample ID:		SSDS EFFLUENT	SSDS EFFLUENT
Lab Sample ID:		JD26114-1	JD36517-1
Date Sampled:		6/4/2021	12/9/2021
Matrix:		Soil Vapor	Soil Vapor
MS Volatiles (TO-15) - ug/m3			
Acetone	ug/m3	41.3	32.1
1,3-Butadiene	ug/m3	ND (0.40)	ND (0.75)
Benzene	ug/m3	1.9 J	ND (0.80)
Bromodichloromethane	ug/m3	ND (0.74)	ND (0.80)
Bromoform	ug/m3	ND (1.6)	ND (2.9)
Bromomethane	ug/m3	ND (0.34)	ND (1.1)
Bromoethene	ug/m3	ND (0.38)	ND (1.0)
Benzyl Chloride	ug/m3	ND (1.2)	ND (0.77)
Carbon disulfide	ug/m3	ND (0.29)	ND (0.56)
Chlorobenzene	ug/m3	ND (0.46)	ND (1.4)
Chloroethane	ug/m3	ND (0.50)	ND (0.71)
Chloroform	ug/m3	ND (0.39)	ND (0.73)
Chloromethane	ug/m3	1.2 J	0.87 J
3-Chloropropene	ug/m3	ND (0.50)	ND (1.0)
2-Chlorotoluene	ug/m3	ND (0.52)	ND (1.5)
Carbon tetrachloride	ug/m3	ND (0.59)	ND (1.0)
Cyclohexane	ug/m3	ND (0.30)	ND (1.5)
1,1-Dichloroethane	ug/m3	ND (0.19)	ND (0.93)
1,1-Dichloroethylene	ug/m3	ND (0.27)	ND (0.95)
1,2-Dibromoethane	ug/m3	ND (0.55)	ND (3.0)
1,2-Dichloroethane	ug/m3	ND (0.34)	ND (1.1)
1,2-Dichloropropane	ug/m3	ND (0.36)	ND (1.2)
1,4-Dioxane	ug/m3	ND (0.76)	ND (1.7)
Dichlorodifluoromethane	ug/m3	2.5 J	2.3 J
Dibromochloromethane	ug/m3	ND (1.1)	ND (1.8)
trans-1,2-Dichloroethylene	ug/m3	ND (0.11)	ND (1.1)
cis-1,2-Dichloroethylene	ug/m3	ND (0.19)	ND (1.2)
cis-1,3-Dichloropropene	ug/m3	ND (0.35)	ND (1.1)
m-Dichlorobenzene	ug/m3	ND (0.46)	ND (0.96)
o-Dichlorobenzene	ug/m3	ND (0.52)	ND (3.7)
p-Dichlorobenzene	ug/m3	ND (0.42)	ND (0.90)
trans-1,3-Dichloropropene	ug/m3	ND (0.35)	ND (1.8)
Ethanol	ug/m3	33.9	21.7
Ethylbenzene	ug/m3	ND (0.26)	ND (1.0)
Ethyl Acetate	ug/m3	42.5	15
4-Ethyltoluene	ug/m3	ND (0.59)	ND (1.9)
Freon 113	ug/m3	ND (0.52)	ND (0.92)
Freon 114	ug/m3	ND (0.53)	ND (1.4)
Heptane	ug/m3	2.6 J	ND (1.5)
Hexachlorobutadiene	ug/m3	ND (1.9)	ND (2.7)
Hexane	ug/m3	5.3	1.7 J
2-Hexanone	ug/m3	ND (0.61)	ND (2.4)
Isopropyl Alcohol	ug/m3	7.4	174
Methylene chloride	ug/m3	6.9	6.6
Methyl ethyl ketone	ug/m3	2.9	ND (1.3)
Methyl Isobutyl Ketone	ug/m3	ND (0.57)	ND (1.2)
Methyl Tert Butyl Ether	ug/m3	ND (0.28)	ND (1.2)
Methylmethacrylate	ug/m3	ND (0.53)	ND (1.1)
Propylene	ug/m3	2.6 J	ND (0.98)
Styrene	ug/m3	ND (0.32)	ND (2.0)
1,1,1-Trichloroethane	ug/m3	ND (0.71)	ND (0.82)
1,1,2,2-Tetrachloroethane	ug/m3	ND (0.76)	ND (1.3)
1,1,2-Trichloroethane	ug/m3	ND (0.65)	ND (0.82)
1,2,4-Trichlorobenzene	ug/m3	ND (2.6)	ND (3.6)
1,2,4-Trimethylbenzene	ug/m3	ND (0.64)	ND (1.7)
1,3,5-Trimethylbenzene	ug/m3	ND (0.64)	ND (1.6)
2,2,4-Trimethylpentane	ug/m3	3.0 J	ND (1.8)
Tertiary Butyl Alcohol	ug/m3	6.7	ND (1.1)
Tetrachloroethylene	ug/m3	ND (0.81)	ND (0.38)
Tetrahydrofuran	ug/m3	ND (0.59)	ND (1.1)
Toluene	ug/m3	7.2	2.7 J
Trichloroethylene	ug/m3	ND (0.41)	ND (0.41)
Trichlorofluoromethane	ug/m3	2.2 J	ND (0.79)
Vinyl chloride	ug/m3	ND (0.23)	ND (0.72)
Vinyl Acetate	ug/m3	3.9	ND (1.6)
m,p-Xylene	ug/m3	1.8 J	ND (2.4)
o-Xylene	ug/m3	ND (0.30)	ND (1.3)
Xylenes (total)	ug/m3	1.8 J	ND (1.3)

Legend: Hit

Figures



SCALE 1:24 000

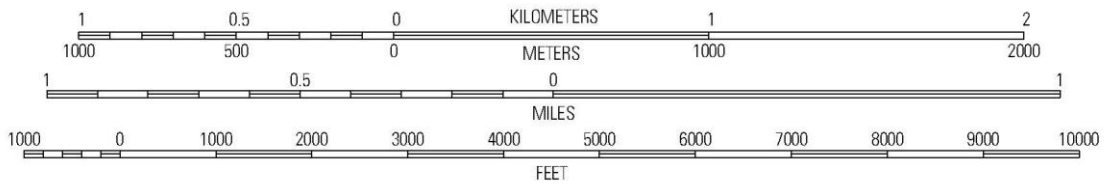


Figure 1: Site Location

Site: Information Technology High School
 21-16 44th Road
 Long Island City, New York

Client: Bell Realty

158 West 29th Street, New York, NY 10001



158 West 29th Street, 9th Fl.
New York, NY 10001

21-16 44th Road
Long Island City, NY

Figure 2

Site Plan

January 2020

Project Number
10012-006

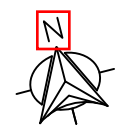
LEGEND

- Monitoring well
- Shallow monitoring well
- Recovery well
- Vapor extraction well
- Bedrock monitoring well
- Soil vapor monitoring points

21ST AVENUE

44TH ROAD

Sewer Line



MW-1

New Stairs

ELEVATOR
1ST FLOOR

FIRST FLOOR

BASEMENT

BASEMENT
ELEVATOR

BMRW-3

VE-3

VE-2

RW-1

MW-8

VMP-1

VE-4

VMP-2

MW-6

MW-7

FORMER DRUM STORAGE AREA

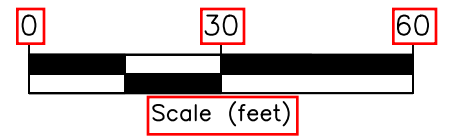
TREATMENT SHED

FORMER DRUM STORAGE AREA

BMRW-1

COURTYARD

44TH DRIVE

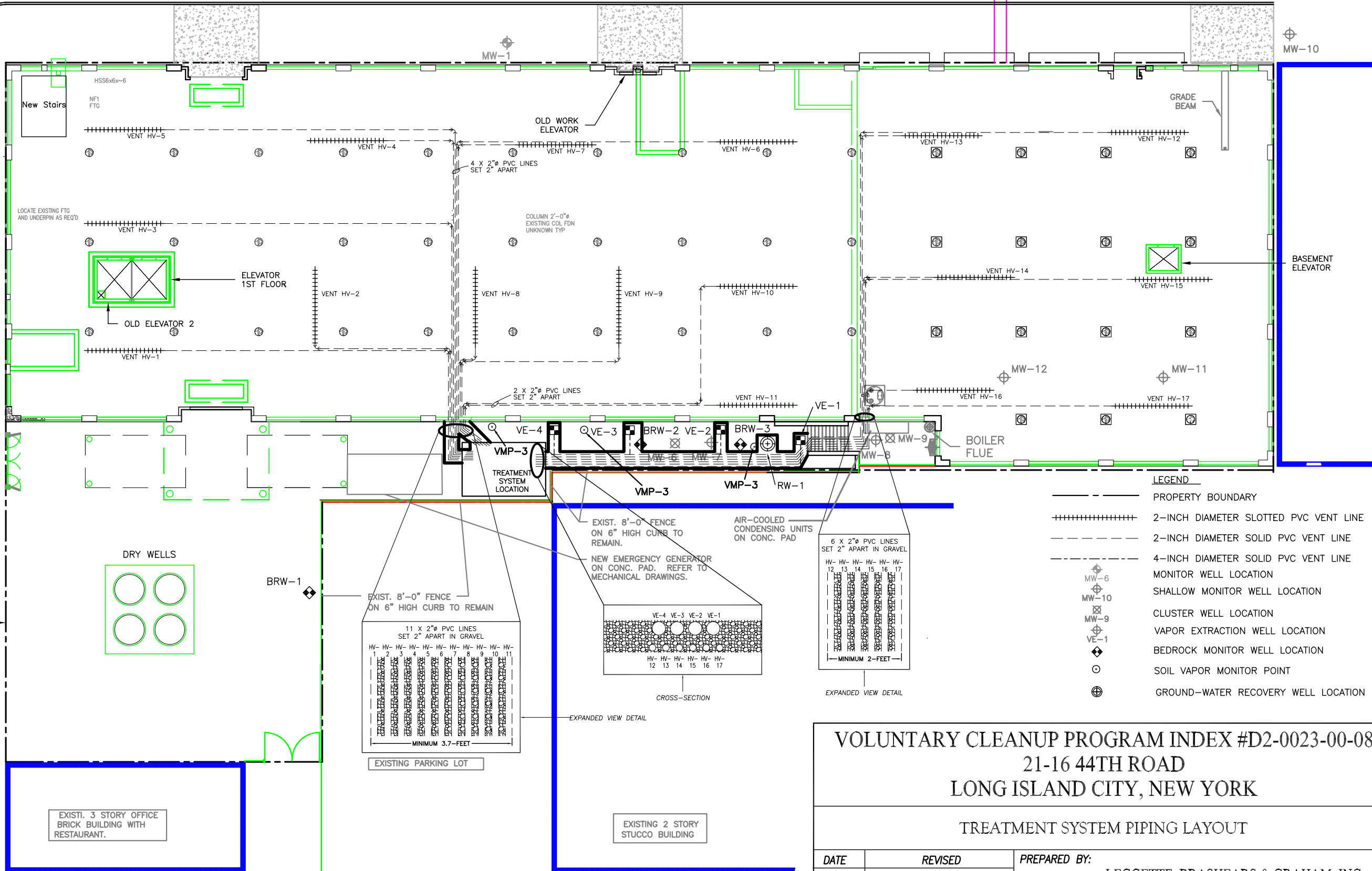


FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\Site Plan\v3\Site Layout with MWs v2.dwg DATE: 4/27/2021

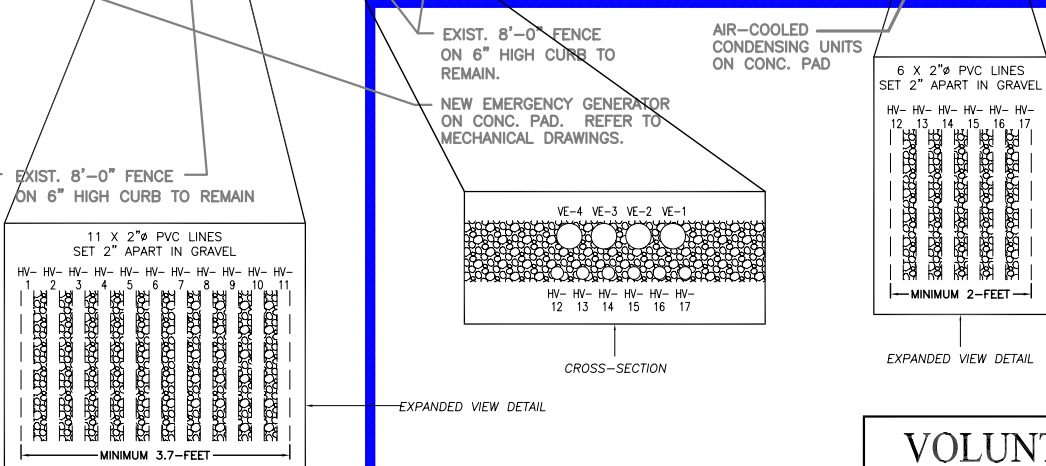
44TH ROAD

21ST AVENUE

PROPERTY LINE



- LEGEND**
- PROPERTY BOUNDARY
 - +++++ 2-INCH DIAMETER SLOTTED PVC VENT LINE
 - 2-INCH DIAMETER SOLID PVC VENT LINE
 - 4-INCH DIAMETER SOLID PVC VENT LINE
 - ⊕ MW-6 MONITOR WELL LOCATION
 - ⊕ MW-10 SHALLOW MONITOR WELL LOCATION
 - ⊕ MW-9 CLUSTER WELL LOCATION
 - ⊕ VE-1 VAPOR EXTRACTION WELL LOCATION
 - ⊕ BEDROCK MONITOR WELL LOCATION
 - SOIL VAPOR MONITOR POINT
 - ⊕ GROUND-WATER RECOVERY WELL LOCATION



VOLUNTARY CLEANUP PROGRAM INDEX #D2-0023-00-08
21-16 44TH ROAD
LONG ISLAND CITY, NEW YORK

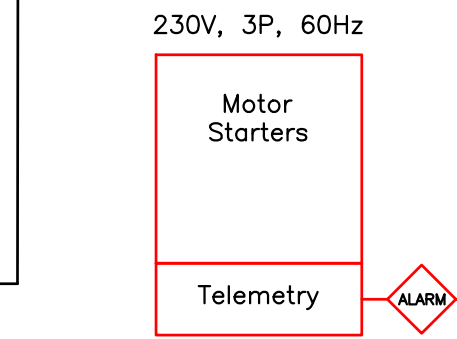
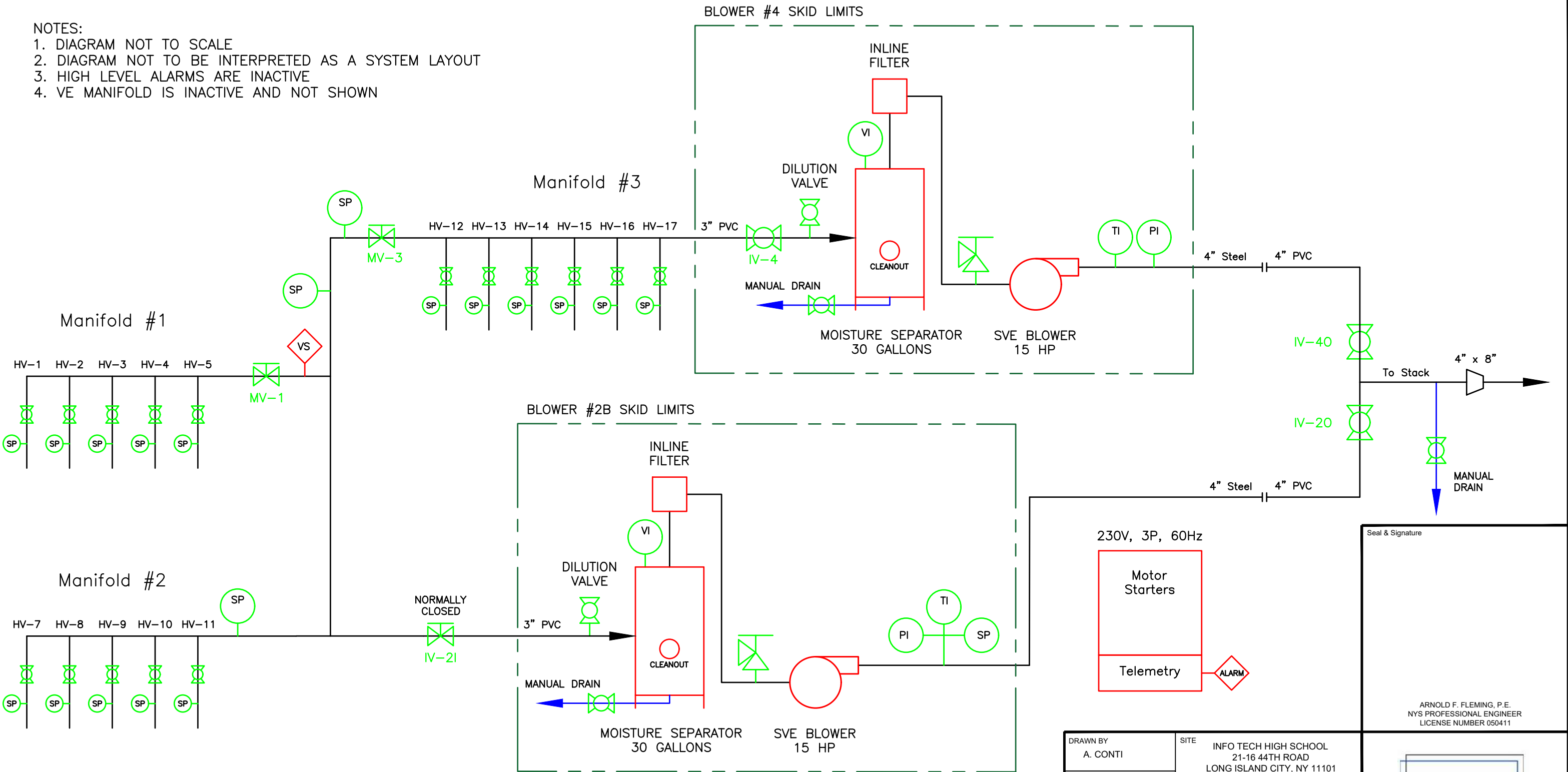
TREATMENT SYSTEM PIPING LAYOUT

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Engineering Services
		110 Corporate Park Drive
		Suite 112
		White Plains, NY 10604
		(914) 694-5711
DRAWN:	MRV	CHECKED: SG
DATE:	4/11/03	FIGURE: 8



NOTES:

1. DIAGRAM NOT TO SCALE
2. DIAGRAM NOT TO BE INTERPRETED AS A SYSTEM LAYOUT
3. HIGH LEVEL ALARMS ARE INACTIVE
4. VE MANIFOLD IS INACTIVE AND NOT SHOWN



Seal & Signature

ARNOLD F. FLEMING, P.E.
NYS PROFESSIONAL ENGINEER
LICENSE NUMBER 050411



ARNOLD F. FLEMING, P.E.
158 WEST 29TH STREET, 9TH FL.
NEW YORK, NY 10001

DRAWN BY A. CONTI		SITE INFO TECH HIGH SCHOOL 21-16 44TH ROAD LONG ISLAND CITY, NY 11101	
PROJECT MANAGER M. HUTSON		TITLE PROCESS AND INSTRUMENTATION DIAGRAM	
DATE OCTOBER 4, 2018			

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	1/7/2019	UPDATE AS BUILT	BJH

APPROVED

BY _____

PROJECT NUMBER 10012-001	DRAWING NUMBER 1	PAGE 1 OF 1
-----------------------------	---------------------	----------------

ABBREVIATIONS

- SP SAMPLING PORT
- PI PRESSURE INDICATOR
- VI VACUUM INDICATOR
- TI TEMPERATURE INDICATOR
- VS VACUUM SWITCH

VALVES

- BALL VALVE
- VACUUM RELIEF VALVE
- GATE VALVE

LEGEND

- PIPE AND CONNECTIONS
- GAUGE OR VALVE
- EQUIPMENT
- REDUCER

High School



Arnold F. Fleming, P.E.
158 West 29th Street, 9th Fl.
New York, NY 10001



Revisions		
No.	Date	Description
1	1/7/19	ADD TELEMTRY SYSTEM

Approved
BY _____

Title
**SSDS Layout
As-Built**

Site Information Technology High School
21-16 44th Road
Long Island City, NY

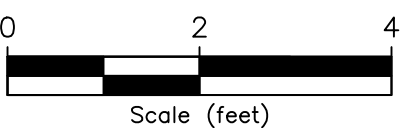
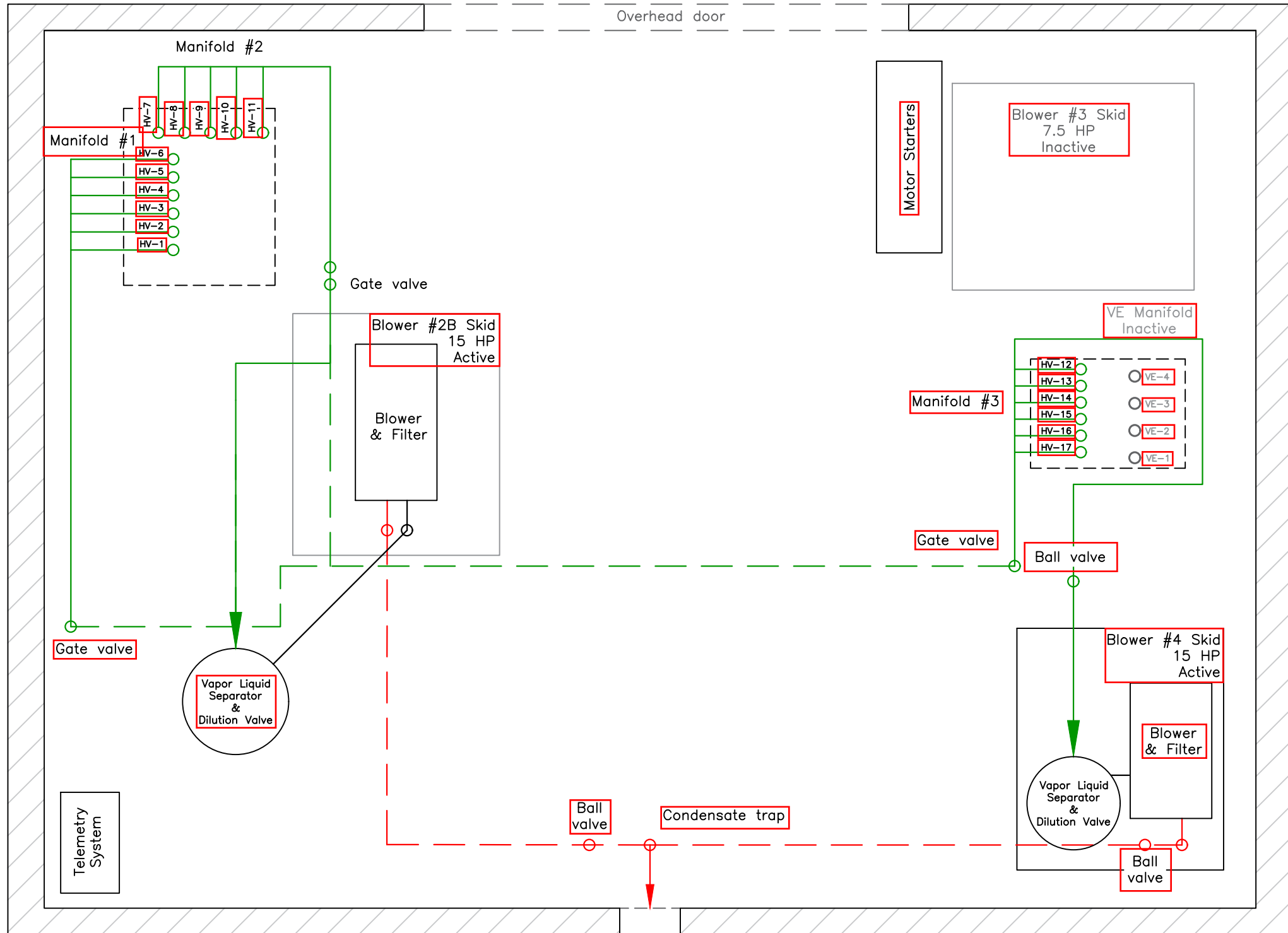
Legend

- Active vacuum pipe (dashed where suspended)
- Active exhaust pipe (dashed where suspended)
- Fitting or vertical pipe

Seal & Signature

ARNOLD F. FLEMING, P.E.
NYS PROFESSIONAL ENGINEER
LICENSE NUMBER 050411

Date September 17, 2018	Project Number 10012-06
Drawn By A. Conti	Drawing Number 1
	Page 1 of 1



Notes:
 - Scale and dimensions are approximate
 - Each leg (HV-1 through HV-17) has a sample port

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\SSDS\2018 Shed Layout As-Built\SSDS As-Built Shed Layout UPDATED 9-8-2020 BJH (updated to FE).dwg DATE: 4/27/2021



158 West 29th Street, 9th Fl.
New York, NY 10001

21-16 44th Road
Long Island City, NY





Figure 6

Overburden Groundwater Contour

September 2021

Project Number
10012-006

LEGEND

-  Monitoring well
MW-1
-  Recovery well
RW-1
-  Bedrock monitoring well
BRMW-1
-  Abandoned monitoring well
MW-2

Notes: Current sampling plan includes recovery and bedrock monitoring wells.

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\202103\Overburden Contour Map.dwg DATE: 4/20/2022

21ST AVENUE

44TH ROAD



MW-1
(3.60)

MW-10

3.64

3.68

3.72

3.76

3.80

BMRW-2

BMRW-3

RW-1
(3.80)

MW-6
(3.85)

MW-7
(3.81)

MW-8
(3.81)

MW-9
(3.81)

TREATMENT SHED

FORMER DRUM

MW-2

MW-5

MW-13

BMRW-1

ELEVATOR
1ST FLOOR

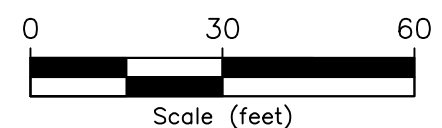
BASEMENT
ELEVATOR

FIRST FLOOR

BASEMENT

COURTYARD

44TH DRIVE





158 West 29th Street, 9th Fl.
New York, NY 10001

21-16 44th Road
Long Island City, NY





Figure 7

Bedrock Groundwater Contour

September 2021

Project Number
10012-006

LEGEND

-  Monitoring well
MW-1
-  Recovery well
RW-1
-  Bedrock monitoring well
BRMW-1
-  Abandoned monitoring well
MW-2

Notes: Current sampling plan includes recovery and bedrock monitoring wells.

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\202103\Bedrock Contour Map.dwg DATE: 4/20/2022

21ST AVENUE

44TH ROAD



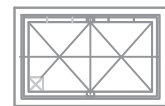
Sewer Line

MW-1

MW-10

New Stairs

MW-2



ELEVATOR
1ST FLOOR

FIRST FLOOR

BASEMENT



BASEMENT
ELEVATOR

BMRW-2
(3.85)

BMRW-3
(3.85)

RW-1

MW-6

MW-7

MW-8

MW-9

MW-5

TREATMENT SHED

FORMER DRUM STORAGE AREA

BMRW-1
(3.75)

3.78

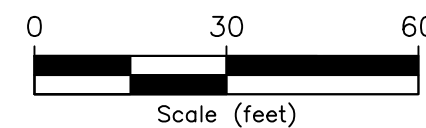
3.80

3.82

COURTYARD

MW-13

44TH DRIVE



Compound	MW-1
cis-1,2-Dichloroethene	ND
Tetrachloroethene	22.7
Trichloroethene	1.9

MW-1

Sewer Line



Compound	BRMW-3
cis-1,2-Dichloroethene	15.4
Tetrachloroethene	376
Trichloroethene	79.4

Compound	RW-1
cis-1,2-Dichloroethene	49.1
Tetrachloroethene	94.5
Trichloroethene	10.4

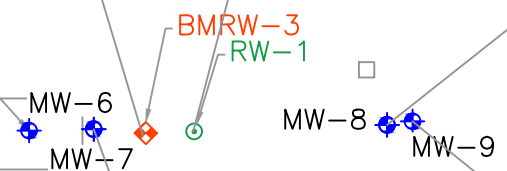
BASEMENT

Compound	MW-8
cis-1,2-Dichloroethene	ND
Tetrachloroethene	71.2
Trichloroethene	2.2

Compound	MW-6
cis-1,2-Dichloroethene	ND
Tetrachloroethene	198
Trichloroethene	2.5



FORMER DRUM STORAGE AREA



Compound	BRMW-2
cis-1,2-Dichloroethene	20
Tetrachloroethene	1040
Trichloroethene	127

Compound	MW-7
cis-1,2-Dichloroethene	ND
Tetrachloroethene	ND
Trichloroethene	ND

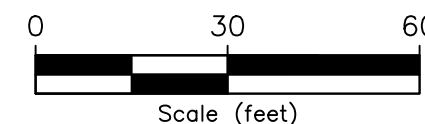
Compound	MW-9
cis-1,2-Dichloroethene	ND
Tetrachloroethene	81
Trichloroethene	3.3

COURTYARD

Compound	BRMW-1
cis-1,2-Dichloroethene	2
Tetrachloroethene	126
Trichloroethene	7.1

Compound	Class GA Standard
cis-1,2-Dichloroethene	5
Tetrachloroethene	5
Trichloroethene	5

Samples collected 9/17/2021
 Results reported in micrograms per liter (ug/L)
 ND = Not detected above laboratory reporting limit
 J = Estimated Value
 Class GA Value = Class GA Standards and Guidance Values
 (NYSDEC's June 1998 *Division of Water Technical and Operational Guidance Series*)



158 West 29th Street, 9th Fl.
 New York, NY 10001

21-16 44th Road
 Long Island City, NY

Figure 8

VOC Concentrations in Groundwater

September 2021

Project Number
10012-006

LEGEND

- Monitoring well
- Recovery well
- Bedrock monitoring well



158 West 29th Street, 9th Fl.
New York, NY 10001

21-16 44th Road
Long Island City, NY





Figure 9

Overburden Groundwater Contour

April 2022

Project Number
10012-006

LEGEND

-  Monitoring well
-  Recovery well
-  Bedrock monitoring well
-  Abandoned monitoring well

Notes: Current sampling plan includes recovery and bedrock monitoring wells.

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\2022Q1\Overburden contour\Overburden Contour Map - April 2022.dwg DATE: 4/20/2022

21ST AVENUE

44TH ROAD



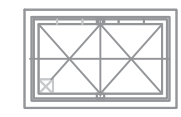
MW-1
(2.55)

MW-10

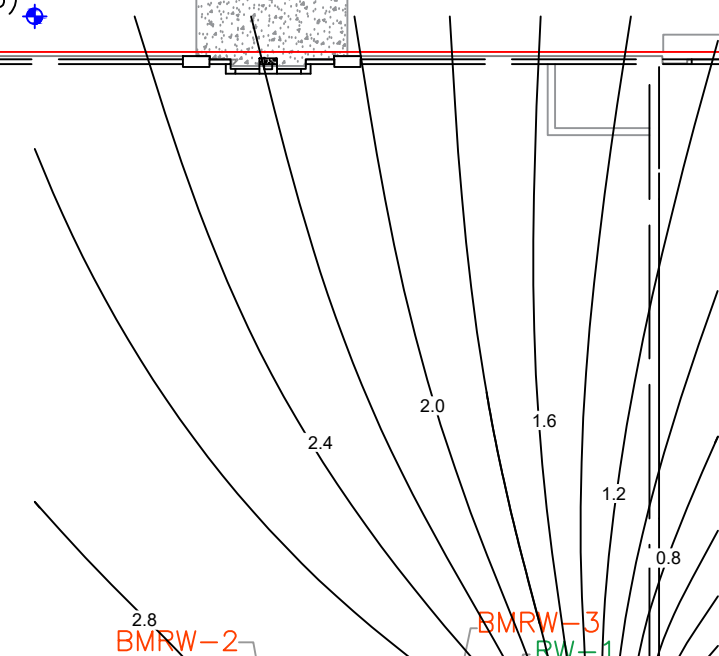
MW-2

FIRST FLOOR

BASEMENT



ELEVATOR
1ST FLOOR

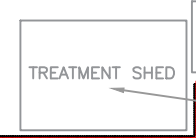


BMRW-2

BMRW-3

MW-9
(-0.14)

MW-5



FORMER DRUM

MW-6
(2.76)

MW-7
(2.73)

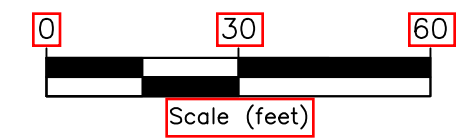
MW-8
(-0.05)

COURTYARD

BMRW-1

MW-13

44TH DRIVE





158 West 29th Street, 9th Fl.
New York, NY 10001

21-16 44th Road
Long Island City, NY





Figure 10

Bedrock Groundwater Contour

April 2022

Project Number
10012-006

LEGEND

-  Monitoring well
-  Recovery well
-  Bedrock monitoring well
-  Abandoned monitoring well

Notes: Current sampling plan includes recovery and bedrock monitoring wells.

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\202201\Bedrock contour\Bedrock Contour Map - April 2022.dwg DATE: 4/20/2022

21ST AVENUE

44TH ROAD



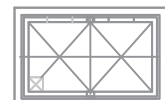
Sewer Line

MW-10

MW-1

New Stairs

MW-2



ELEVATOR
1ST FLOOR

FIRST FLOOR

BASEMENT



BASEMENT
ELEVATOR

BMRW-2
(2.85)

BMRW-3
(2.85)

MW-6

MW-7

MW-8

MW-9

TREATMENT SHED

FORMER DRUM STORAGE AREA

2.80

2.82

2.84

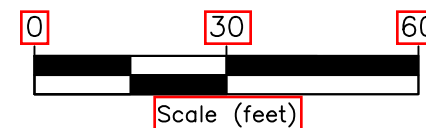
BMRW-1
(2.77)

COURTYARD

MW-5

MW-13

44TH DRIVE





158 West 29th Street, 9th Fl.
New York, NY 10001

21-16 44th Road
Long Island City, NY




Figure 11

VOC Concentrations in Groundwater

April 2022

Project Number
10012-006

LEGEND

-  Monitoring well
-  Recovery well
-  Bedrock monitoring well

Compound	MW-1
cis-1,2-Dichloroethene	73.3
Tetrachloroethene	1360
Trichloroethene	16.1

Compound	BRMW-3
cis-1,2-Dichloroethene	13.2
Tetrachloroethene	304
Trichloroethene	53.2

Compound	RW-1
cis-1,2-Dichloroethene	68.8
Tetrachloroethene	40.1
Trichloroethene	2.2

Compound	MW-6
cis-1,2-Dichloroethene	1.8
Tetrachloroethene	803
Trichloroethene	6.3

Compound	MW-8
cis-1,2-Dichloroethene	1.2
Tetrachloroethene	80.9
Trichloroethene	8.6

Compound	BRMW-2
cis-1,2-Dichloroethene	38.7
Tetrachloroethene	659
Trichloroethene	84.6

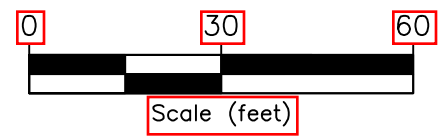
Compound	MW-7
cis-1,2-Dichloroethene	ND
Tetrachloroethene	140
Trichloroethene	0.97 J

Compound	MW-9
cis-1,2-Dichloroethene	5.3
Tetrachloroethene	79.8
Trichloroethene	14.9

Compound	BRMW-1
cis-1,2-Dichloroethene	2
Tetrachloroethene	122
Trichloroethene	7.5

Compound	Class GA Standard
cis-1,2-Dichloroethene	5
Tetrachloroethene	5
Trichloroethene	5

Samples collected 4/5/2022
 Results reported in micrograms per liter (ug/L)
 ND = Not detected above laboratory reporting limit
 J = Estimated Value
 Class GA Value = Class GA Standards and Guidance Values
 (NYSDEC's June 1998 *Division of Water Technical and Operational Guidance Series*)



44TH DRIVE

21ST AVENUE

44TH ROAD

FIRST FLOOR

BASEMENT

COURTYARD

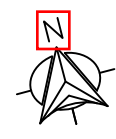
TREATMENT SHED

FORMER DRUM STORAGE AREA

New Stairs

ELEVATOR
1ST FLOOR

BASEMENT
ELEVATOR



FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\2022012 - Site Plan with GW Results.dwg DATE: 4/15/2022

Appendix A

Environmental Easement & Metes and Bounds

APPENDIX I

Metes and Bounds

CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

LEGAL DESCRIPTION

AS TO LOT 23:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 79 FEET EASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF 21ST STREET (VANALST AVENUE AND EMERALD AVENUE) WHERE IT INTERSECTS WITH THE NORTHERLY SIDE OF 44TH DRIVE (NOTT AVENUE) AND NORTHERLY 27 FEET PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 65 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 57 FEET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 8 FEET;

THENCE WESTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 136 FEET;

THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 73 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 79 FEET TO THE POINT OF PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 23

CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

LEGAL DESCRIPTION

AS TO LOT 26:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

RUNNING THENCE SOUTHERLY ALONG THE SAID EASTERLY SIDE OF 21ST STREET, 100 FEET;

THENCE EASTERLY PARALLEL WITH SAID SIDE OF 44TH ROAD, 315 FEET;

THENCE NORTHERLY AND PARALLEL WITH SAID SIDE OF 21ST STREET, 100 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD;

AND THENCE WESTERLY ALONG SAID SIDE OF 44TH ROAD, 315 FEET TO THE CORNER, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 26

CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

LEGAL DESCRIPTION

BLANKET DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 44TH ROAD 315.00 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES TO 44TH ROAD 100.00 FEET;

THENCE WESTERLY AND PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 179.0 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES WITH THE PRECEDING COURSE 8.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 57.0 FEET;

THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET 65.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 79.0 FEET TO THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 21ST STREET 173.0 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD, THE POINT OR PLACE OF BEGINNING.

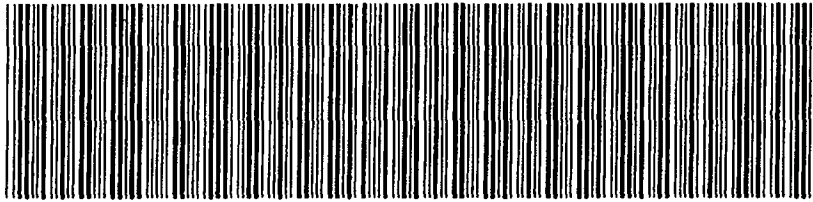
FOR INFORMATION ONLY: BLOCK 438 LOTS 23 AND 26

APPENDIX II

Site Specific Deed Restriction

**NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER**

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.



2003071100522001001E387B

RECORDING AND ENDORSEMENT COVER PAGE

PAGE 1 OF 12

Document ID: 2003071100522001
Document Type: DECLARATION
Document Page Count: 11

Document Date: 07-10-2003

Preparation Date: 07-11-2003

PRESENTER:

DONALD LUHRS C/O CHICAGO TITLE
330 OLD COUNTRY RD
MINEOLA, NY 11501
516-535-5209

RETURN TO:

SIVE,PAGET & RIESEL,PC
460 PARK AVENUE
NEW YORK, NY 10022-1906
212-421-2150

PROPERTY DATA

Borough	Block	Lot	Unit	Address
QUEENS	438	23	Entire Lot	4441 21 STREET
Property Type: OTHER				
Borough	Block	Lot	Unit	Address
QUEENS	438	26	Entire Lot	21-02 44 ROAD
Property Type: OTHER				

CROSS REFERENCE DATA

CRFN _____ or Document ID _____ or Year ____ Reel ____ Page ____ or File Number _____

PARTIES

PARTY 1:

CDI 21ST LIC, LLC
525 NORTHERN BOULEVARD, SUITE 300
GREAT NECK, NY 11021

FEES AND TAXES

Mortgage		Recording Fee: \$	95.00
Mortgage Amount:	\$	Affidavit Fee: \$	0.00
Taxable Mortgage Amount:	\$	NYC Real Property Transfer Tax Filing Fee:	
Exemption:		\$	0.00
TAXES:		NYS Real Estate Transfer Tax:	
County (Basic):	\$	\$	0.00
City (Additional):	\$		0.00
Spec (Additional):	\$		0.00
TASF:	\$		0.00
MTA:	\$		0.00
NYCTA:	\$		0.00
TOTAL:	\$		0.00

**RECORDED OR FILED IN THE OFFICE
OF THE CITY REGISTER OF THE**

CITY OF NEW YORK
Recorded/Filed 07-11-2003 15:00
City Register File No.(CRFN):
2003000225886



John J. Lawrence
City Register Official Signature

DECLARATION

THIS DECLARATION is made this 10th day of July, 2003, by CDI 21st LLC, LLC, whose address is 525 Northern Boulevard, Suite 300, Great Neck, New York, 11021, hereinafter called the "DECLARANT".

WITNESSETH

WHEREAS, the DECLARANT is the owner of certain real property located in Queens County, City and State of New York, Tax Block 438, Lot Nos. 23 and 26, which real property is described in the Deed attached hereto as "Attachment A" and which real property is hereinafter called the "SUBJECT PROPERTY"; and

WHEREAS, a Voluntary Cleanup Agreement ("VCA") #D2-0023-00-08 is on file with the New York State Department of Environmental Conservation (the "Department"), and the terms used therein shall have the same meaning as used herein; and

WHEREAS, DECLARANT represents and warrants that no restriction of record on the use of the SUBJECT PROPERTY nor any present or presently existing future estate or interest in the SUBJECT PROPERTY nor any lien, obligation, covenant, limitation or encumbrance of any kind precludes, presently or potentially, the imposition of the restrictions, covenants, obligations, easements and agreements of the instant Declaration or the development of the SUBJECT PROPERTY in accordance therewith.

NOW, THEREFORE, DECLARANT does hereby declare that the SUBJECT PROPERTY shall only be held, sold, conveyed and occupied subject to the following restrictions, covenants, and obligations and agreements:

1. The instant Declaration may be amended, modified or canceled only with the express written approval and consent of the Commissioner of the Department or the head of the agency succeeding to its jurisdiction. No other approval or consent shall be required or accepted from any public body, private person, or legal entity of any kind.
2. The SUBJECT PROPERTY shall not be used for purposes other than the Contemplated Use set forth in the letter modifying the VCA, annexed hereto as Attachment "B", without the express written waiver of such prohibition by the Department or any agency succeeding to its jurisdiction.
3. Groundwater underlying the SUBJECT PROPERTY shall not be used without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department, or if at such time the Department shall no longer exist, any New York State department, bureau, or other entity replacing the Department;

4. Soil on-site shall not be excavated without a health and safety plan previously approved by the Department and the New York State Department of Health ("NYSDOH") or without prior notification to the Department and NYSDOH. In the event of an emergency, such notification will be made as soon as practicable.

5. An annual certification shall be filed with the Department certifying that this deed restriction has not been violated;

6. DECLARANT and its successors and assigns shall continue in full force and effect such engineering and institutional controls as the Department has deemed appropriate in accordance with the Remedial Work Plan by the Department on July 3, 2003

7. DECLARANT hereby consents on behalf of itself and its successors and assigns, to the enforcement by the Department, or if at such time the Department shall no longer exist, any New York State department, bureau, or other entity replacing the Department, of the prohibitions and restrictions herein recorded, and hereby covenants not to contest such enforcement.

CDI 21st LIC, LLC

By: 

STATE OF NEW YORK, COUNTY OF QUEENS

On the 10th day of July in the year 2003, before me, the undersigned, a Notary Public in and for said State, personally appeared John D. Belouch Personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to he within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual or the person upon whose behalf the individual acted, executed the instrument.

EILEEN F. YENGLE
NOTARY PUBLIC, State of New York
No. 80-4732868
Qualified in Nassau County
Certificate filed in Nassau County
Commission Expires Dec. 31, ~~2005~~ 2006


Notary Public

ATTACHMENT "A "

↑

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New York N.Y.D.T.H. Form M101-9(6) - (Mortgage and Sale deed, without Covenants against Grantor's Acts - Individual or Corporation) (single sheet)
CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

CI
746
47,500-
246
47,500-

THIS INDENTURE, made the ²³ day of *May*, ~~September~~ 2002
BETWEEN PREMIER STORAGE SOLUTIONS OF L.I. CITY, LLC, with offices
at 5170 Sanderlin Avenue, Suite 201, Memphis, Tennessee
38117,

party of the first part, and CDI 21st LLC, LLC, with offices c/o Bell Realty,
525 Northern Boulevard, Suite 300, Great Neck, New
York 11021

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE SCHEDULE A ANNEXED HERETO.

BLOCK
438.

LOTS

23
26

TOGETHER with all right, title and interest, if any, of the party of the first part of, in and to any streets and roads abutting the above-described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed this day and year first above written.

IN PRESENCE OF:

PREMIER STORAGE SOLUTIONS OF L.I. CITY, LLC

BY: *[Signature]*

Tennessee
STATE OF NEW YORK COUNTY OF Shelby 59

On the 21st day of May, in the year 2002, before me personally appeared James G. Williams personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and James G. Williams acknowledged to me that he/she/they executed the same in his/her/their capacity(ies) and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual acted, executed the instrument and that by such individual made such appearance before the undersigned in the

Mayaui Whitney
Notary Public

My Commission Expires Jan. 15, 2003

STATE OF NEW YORK, COUNTY OF 58:

On the _____ day of _____ 19____, before me personally came _____ to me known, who, being by me duly sworn, did depose and say that he resides at No. _____

that he is the _____ of _____

_____ the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

STATE OF NEW YORK, COUNTY OF 59:

On the _____ day of _____ 19____, before me personally came _____ the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. _____

that he knows _____

_____ to be the individual described in said who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

Mortgage and Sale Deed
WITHOUT COVENANT AGAINST GRANTOR'S ACTS

TITLE No. 3601-00306

PREMIER STORAGE SOLUTIONS OF L.L. CTR., LLC,

TO

CDI 21st LIC, LLC

STANDARD FORM OF
NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by



GUARANTEED TITLE DIVISION

A Member of The Commercial Insurance Companies

SECTION
BLOCK 438
LOT 23, 26
COUNTY OF TOWN

Recorded At Request of American Title Insurance Company

RETURN BY MAIL TO:

BERNICK, FELDSTEIN, ESQ.
710 PARK AVENUE
NEW YORK, NEW YORK 10016-0000

Attn.: MITCHELL BERNSTEIN, ESQ.

Zip No.

RESERVE THIS SPACE FOR USE ON RECORDING OFFICE

CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

LEGAL DESCRIPTION

AS TO LOT 23:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 79 FEET EASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF 21ST STREET (VANALST AVENUE AND EMERALD AVENUE) WHERE IT INTERSECTS WITH THE NORTHERLY SIDE OF 44TH DRIVE (NOTT AVENUE) AND NORTHERLY 27 FEET PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 65 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 57 FEET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 8 FEET;

THENCE WESTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 136 FEET;

THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 73 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 79 FEET TO THE POINT OF PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 23

CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

LEGAL DESCRIPTION

AS TO LOT 26:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

RUNNING THENCE SOUTHERLY ALONG THE SAID EASTERLY SIDE OF 21ST STREET, 100 FEET;

THENCE EASTERLY PARALLEL WITH SAID SIDE OF 44TH ROAD, 315 FEET;

THENCE NORTHERLY AND PARALLEL WITH SAID SIDE OF 21ST STREET, 100 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD;

AND THENCE WESTERLY ALONG SAID SIDE OF 44TH ROAD, 315 FEET TO THE CORNER, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 26

CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

LEGAL DESCRIPTION

BLANKET DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 44TH ROAD 315.00 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES TO 44TH ROAD 100.00 FEET;

THENCE WESTERLY AND PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 179.0 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES WITH THE PRECEDING COURSE 8.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 57.0 FEET;

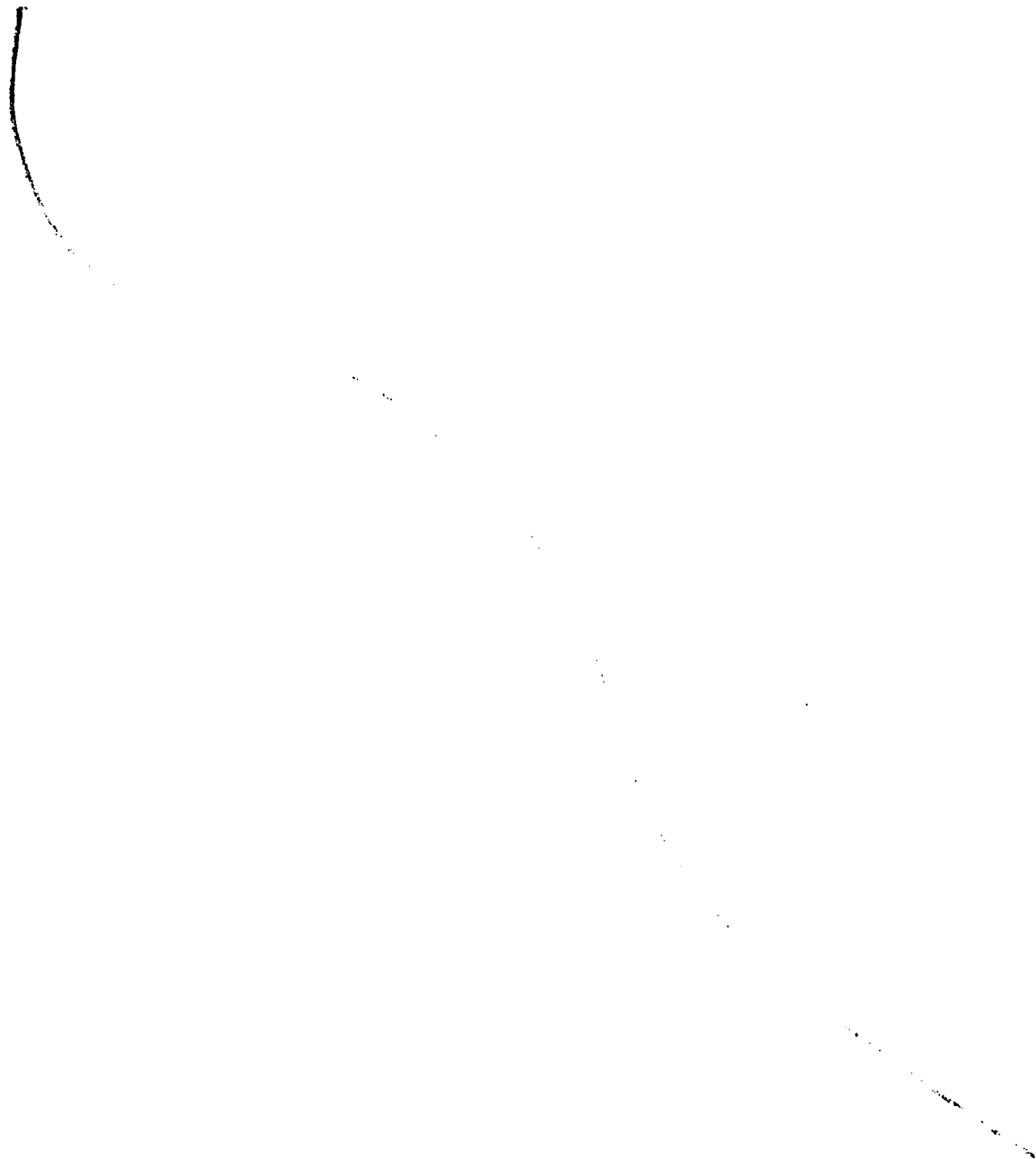
THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET 65.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 79.0 FEET TO THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 21ST STREET 173.0 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY: BLOCK 438 LOTS 23 AND 26

ATTACHMENT "B"



FROM HERRICK, FEINSTEIN LLP

(WSD) 1.23.02 12:14/ST. 12:13 NO. 4260647559 F 2

21/01/2002 10:36 0129678954

LLK2H, PLLC

PAGE 02

New York State Department of Environmental Conservation
Division of Environmental Enforcement
Bureau of State Superfund and Voluntary Cleanup
 525 Broadway, Albany, New York 12233-5350
 Phone: (518) 402-9521 • FAX: (518) 402-8019
 Website: www.dec.state.ny.us



January 11, 2002

Alicia A. Weissmeier, Esq.
 Loretta Lewis Kaplan & Weissmeier, PLLC
 Attorneys at Law
 Suite 310
 977 Avenue of the Americas
 New York, New York 10018

Re Voluntary Cleanup Agreement - 21-16 44th Road Site, Index No. D2-0023-00-08

Dear Ms. Weissmeier:

This letter is forwarded in response to your application to Commissioner Crotty to modify the above referenced Agreement dated January 7, 2002. In that application, your client the Volunteer requested a change in the contemplated use of the Site as stated in the Agreement from, "proposed use as a storage facility and continued use for manufacturing, including but not limited to the current manufacture and distribution of drapery hardware and clothing manufacture" to "Unrestricted Use." By this letter, the Department formally accepts such application and in accordance with the terms of the Agreement the requested application to modify the Agreement is granted.

All other terms and conditions of the Agreement remain in full force and effect. This letter does not constitute a waiver of any rights by the Department regarding said Agreement. Please contact me if you have any questions in this regard.

Very truly yours,

Michael J. Lasser, Esq.

Michael J. Lasser, Esq.
 Legal Coordinator,
 Voluntary Cleanup Program

MJL:mjv44785 v1

cc: [Munteanu-Ramule (R,?)
 E. Ammirati
 C. Costopoulos

DECLARATION
BY CDI 21, LIC, LLC

TAX BLOCK: 438

LOT NOS.: 23 and 26

July 10, 2003

SIVE. PAGET & RIESEL, P.C.
460 PARK AVENUE
NEW YORK, NEW YORK 10022-1906

Appendix B

Annual Inspection Forms

ANNUAL INSPECTION / MONITORING CHECKLIST

Information Technology High School
21-16 44th Drive
Long Island City, New York

<u>Sub-Slab Depressurization System Component</u>	<u>Condition</u>	<u>Yes</u>	<u>No</u>	<u>Describe Deficiency</u>	<u>Any Corrective Action Performed? If so, describe</u>
Exhaust Stack	Is air freely flowing out of stack?	x			
Building Floor Slab	Holes, cracks, or other physical deficiencies?		x		
SSDS Piping	Holes, cracks, or other physical deficiencies?		x		
	Blockages in SSDS piping?		x		
SSDS Blower(s)	Operational?	x			

Ben Hess

Name of Inspector



Signature of Inspector

April 8, 2022

Date of Inspection



Appendix C

Engineering Control and Institutional Control Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	V00366		
Site Name 21-16 44th Road , LIC			
Site Address: 21-16 44TH ROAD		Zip Code: 11101	
City/Town: Long Island City			
County: Queens			
Site Acreage: 0.800			
Reporting Period: April 03, 2021 to April 03, 2022			
		YES	NO
1.	Is the information above correct?	<input type="checkbox"/>	<input type="checkbox"/>
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input type="checkbox"/>

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs in place and functioning as designed?	<input type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
438-23	John Belanich/CDI, 21st Street, LIC, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction

Block 438, Lot 23, represents the court yard and parking lot for the Information Technology High School. The area is paved.

Groundwater at the site must be treated before using it and an approval for using the groundwater must be obtain from the Department before using it.

The remedial system operating on site on Block 438 Lot 26, and consisting of: groundwater pump and treatment system; soil vapor extraction system; soil gas depressurisation system; soil vapor barrier; and capping must be maintained in operation at designed parameters. Any plan to modify the remedial system must be approved by the Department.

The soil beneath the cap at the site must not be disturbed without an approved Health and Safety Plan approved by the Department.

Annual certification must be filled with the Department for the EC/IC which are in place and oprating at designed parameters until the Department will decide it is appropriate to modify them.

438-26	John Belanich/CDI, 21st. Street,LIC, LLC	Building Use Restriction Ground Water Use Restriction Soil Management Plan Landuse Restriction
---------------	--	---

The site can only be used in accordance with the Deed Restriction. The change in use of the property can be made only with the NYS DEC Commisioner's written approval.

An approval for using the groundwater must be obtained from the Department before using it. The groundwater underlying the site must be treated before using it.

The remedial system consisting of: a groundwater pump and treatment system has been decomissioned with NYSDOH and NYSDEC approval(in April 2014, the groundwater Pump and Treatment System was discontinued with the NYSDEC and NYSDOH approval); soil vapor extraction system(in July 2012, the soil vapor extraction system was discontinued withthe NYSDEC and NYSDOH approval); soil gas/vapor barrier beneath the first and basement slab; and soil gas depressurization system, must be maintained in operation at the designed parameters. The capping of the site must be maintained in the same conditions as it was designed for. Any plan to modify the remedial system must be approved by the Department.

The soil beneath the cap at the site must not be disturbed without a health and safety plan approved by the Department.

Every three (3) years certification must be filed with the Department for the aforementioned engineering and institutional controls which operate in place under the designed parameters. The Engineering and Institutional Controls will be maintained in place and operating at designed parameters until the Department will decide it is appropriate to modify them.

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
438-23	Groundwater Treatment System Vapor Mitigation Subsurface Barriers Cover System

438-26

Parcel

Engineering Control

Vapor Mitigation
Cover System
Subsurface Barriers

In July 2012 the Soil Vapor Extraction System was dismantled and its operation discontinued with the approval of the NYSDEC and NYSDOH.

In April 2014, the groundwater Pump and Treatment System was discontinued with the NYSDEC and NYSDOH approval.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. V00366**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____ (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Arnold F. Fleming

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as a Professional Engineer for the _____
(Owner or Remedial Party)



Arnold F. Fleming

Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date

Appendix D

Photographic Log

Site Photos – Former Drum Storage Area, SSDS, and School Slab



Former Drum Storage Area



Former Drum Storage Area



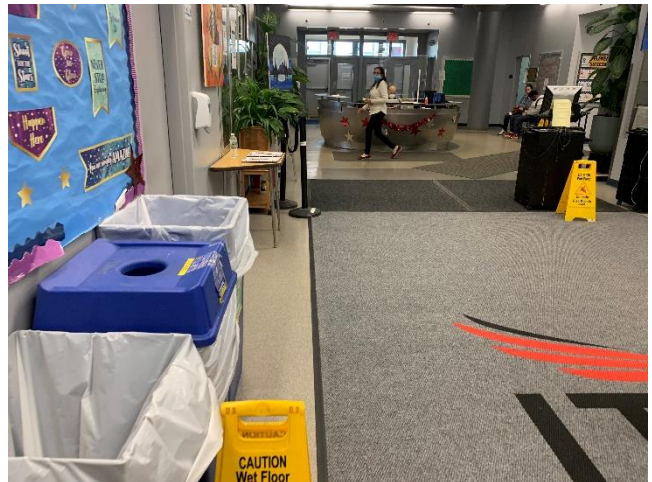
SSDS Blower and Legs in Treatment Shed



SSDS Blower Electric Panel



SSDS Alarm System in Treatment Shed



Main Entrance



Courtyard



Basement Storage Room



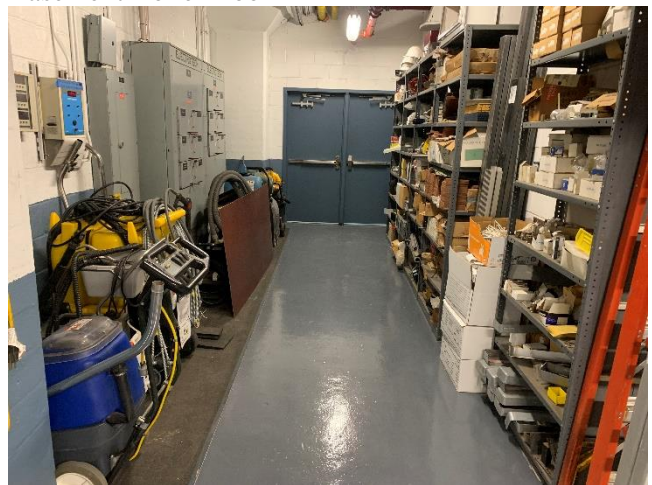
Basement Boiler Room



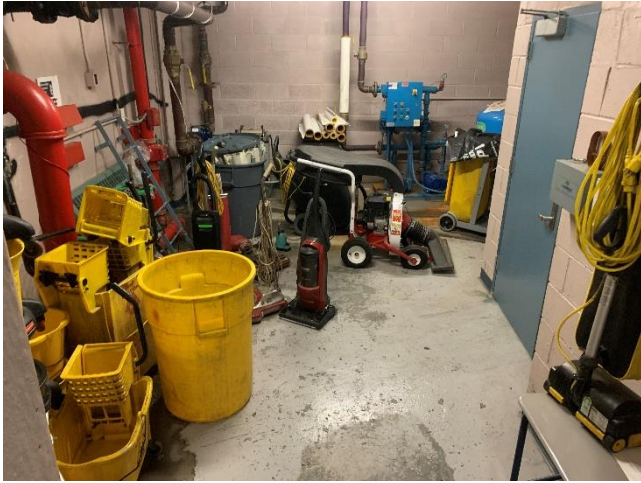
Basement Boiler Room



Basement Boiler Room



Basement Boiler Room



Basement Slab



Basement Slab



Basement Hallway

Appendix E

Agency Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

December 19, 2018

Mark Hutson
Fleming-Lee Shue, Inc.
158 West 29th St.
New York, NY 10001

Re: 21-16 44th Road, Long Island City, NY
Site No. V00366
Semi-Annual Groundwater Monitoring Report

Dear Mr. Hutson,

The New York State Department of Environmental Conservation (the Department) has reviewed the January 9, 2017 report documenting the results of the semi-annual groundwater monitoring at the referenced site. The report was prepared by Fleming-Lee Shue, Inc. (FLS) on behalf of CDI 21st LIC, LLC. The report also proposed modifications to the monitoring scope, specifically removing MW-2 from future monitoring events.

The Department hereby approves the modification of the monitoring schedule stated above. Monitoring well MW-2, in addition to wells MW-5, MW-10, MW-13 must be decommissioned in accordance with Commissioner's Policy (CP) 43. Furthermore, this modification must be documented in revisions to the approved Site Management Plan (SMP). Please submit any necessary revised pages to reflect the approved modifications, including a revised cover page showing the changes, within 30 days of the date of this letter.

Sincerely,

Christopher H. Allan
Project Manager

ec: Jane O'Connell, Mandy Yau – NYSDEC
Justin Deming, Dawn Hettrick – NYSDOH
John Belanich – CDI 21st St LIC, LLC
Joseph Reed – Information Technology High School Principal
Bernard Orlan – NYC Department of Education

Benjamin Hess

From: Orlan Bernard <BOrlan@schools.nyc.gov>
Sent: Friday, April 15, 2022 4:28 PM
To: Joel Kane
Cc: CGUDER@nycsca.org; Guterman Deborah; Mark Hutson; Benjamin Hess
Subject: Re: Information Technology High School | 2021-2022 Indoor Air Sampling

Department of Education did not perform air monitoring at the site during the last year.

Sent from my iPhone

On Apr 15, 2022, at 3:21 PM, Joel Kane <joel@flemingleeshue.com> wrote:

Hi Orlan,

My name is Joel Kane, I am the environmental project manager for the Information Technology High School Site. We are in the process of completing the required Periodic Review Report (PRR) to be submitted to the New York State Department of Environmental Conservation (NYSDEC).

Part of this submittal is a review/discussion of Indoor Air sampling results conducted by the NYCSA within the school. Was Indoor Air Quality sampling conducted within ITHS this past year? If so, are those results available to be forwarded to us?

Thanks again,

Joel Kane
Project Manager
Fleming-Lee Shue
158 West 29th Street
New York, NY, 10001
P: (212) 675-3225
F: (212) 675-3224
C: (406) 321-0586

From: Orlan Bernard <BOrlan@schools.nyc.gov>
Sent: Thursday, April 22, 2021 10:08 AM
To: Joel Kane <joel@flemingleeshue.com>
Subject: RE: Information Technology High School | Indoor Air Sampling

[SCA did not perform air sampling](#)

From: Joel Kane <joel@flemingleeshue.com>
Sent: Wednesday, April 21, 2021 1:52 PM
To: CGUDER@nycsca.org
Cc: Orlan Bernard <BOrlan@schools.nyc.gov>; Guterman Deborah <DGUTERMAN@NYCSCA.ORG>; Mark Hutson <mark@flemingleeshue.com>
Subject: Information Technology High School | Indoor Air Sampling

Appendix F

SSDS OMM Forms

Info Tech High School Monitoring Field Sheet

Date 6/4/2021

Inspector BH

Time 8:30

General

Weather Cloudy

Temperature (F) 66-70

Relative humidity (%) 84

Dew point (F) 62.12

Barometric pressure (in Hg) 15

Wind speed (mph) 2.5

Wind direction N

Carbon replacement? N

Alarms triggered? N

System leaks? N

Air Sample Location	PID (ppm)
Calibration	0.0
Background	0.0
Upwind	0.0
Treatment Shed	0.0
Downwind	0.0

System Effluent

Flow rate (cfm) 542.84

Temperature (F) 78.8

Effluent sample time 9:49

Effluent PID (ppm) 0.0

System 1

Monitoring Point	Vacuum (in w.c.)	Flow (cfm)	Temperature (F)	PID (ppm)
HV-1	-0.231	4.12	71.2	0.0
HV-2	-0.457	9.54	71.4	0.0
HV-3	-3.547	7.54	71.5	0.0
HV-4	-0.333	5.12	71.5	0.0
HV-5	-0.124	4.84	71.8	0.0
HV-6	-0.564	12.24	72.2	0.0
Header	-31.06	-	-	0.0

System 2

Monitoring Point	Vacuum (in w.c.)	Flow (cfm)	Temperature (F)	PID (ppm)
HV-7	-0.845	10.14	72.5	0.0
HV-8	-3.33	15.35	72.4	0.0
HV-9	-2.899	19.21	72.6	0.0
HV-10	-1.248	10.25	72.9	0.0
HV-11	-2.589	13.25	73.3	0.0
Header	-31.58	-	-	0.0

Info Tech High School Monitoring Field Sheet

System 3

Monitoring Point	Vacuum (in w.c.)	Flow (cfm)	Temperature (F)	PID (ppm)
HV-12	-1.101	12.58	73.4	0.0
HV-13	-2.991	21.56	75.1	0.0
HV-14	-0.471	12.54	74.2	0.0
HV-15	-0.068	1.56	74.1	0.0
HV-16	-0.113	5.11	74.3	0.0
HV-17	-0.214	8.7	74.6	0.0
Header	-9.995	-	-	0.0

	Blower #4	Blower #2B
Post-blower pressure (psi)	0.881	-
Post-blower flow (cfm)	542.84	-
Post-blower temperature (F)	78.8	-
Post-blower PID (ppm)	0	-
Water in V.L.S. (gal)	0	-
Disconnect operational	Y	-

Notes

Info Tech High School Monitoring Field Sheet

Date 12/7/2021

Inspector BJH

Time 9:00

General

Weather sunny

Temperature (F) 34

Relative humidity (%) 52

Dew point (F) 22

Barometric pressure (in Hg) 30.22

Wind speed (mph) 10

Wind direction SE

Alarms triggered? N

System leaks? N

Air Sample Location	PID (ppm)
Calibration	0.0 / 99.9
Background	0.0
Upwind	0.0
Treatment Shed	0.0
Downwind	0.0

System Effluent

Flow rate (cfm) 316.61

Temperature (F) 96.8

Effluent sample time 11:50

Effluent PID (ppm) 0.0

System 1

Monitoring Point	Vacuum (in w.c.)	Flow (cfm)	Temperature (F)	PID (ppm)
HV-1	-0.066	3.76	45.6	0.0
HV-2	-0.187	7.8	44.5	0.0
HV-3	-0.089	4.72	44	0.0
HV-4	-0.126	6.76	44	0.0
HV-5	-0.081	4.53	43.8	0.0
HV-6	-0.28	9.79	43.6	0.1
Header	-18.36	-	-	0.1

System 2

Monitoring Point	Vacuum (in w.c.)	Flow (cfm)	Temperature (F)	PID (ppm)
HV-7	-0.289	7.28	43.3	0.4
HV-8	-2.31	17.69	43.1	0.4
HV-9	-2.725	33.19	42.9	0.2
HV-10	-2.837	34.86	42.9	0.5
HV-11	-0.393	9.26	41.6	0.2
Header	-17.61	-	-	0.2

Info Tech High School Monitoring Field Sheet

System 3

Monitoring Point	Vacuum (in w.c.)	Flow (cfm)	Temperature (F)	PID (ppm)
HV-12	-10.95	27.22	48.8	0.1
HV-13	-13.76	61.38	48.6	0.2
HV-14	-0.519	12.28	48.5	0.5
HV-15	-0.030	1.24	47.9	0.5
HV-16	-0.185	7.16	46.1	0.5
HV-17	-0.136	7.72	43.2	0.4
Header	-18.74	-	-	0.3

	Blower #4	Blower #2B
Post-blower pressure (psi)	0.030	-
Post-blower flow (cfm)	316.61	-
Post-blower temperature (F)	96.8	-
Post-blower PID (ppm)	0.0	-
Water in V.L.S. (gal)	0.0	-
Disconnect operational	Y	-

Notes

Appendix G

Vapor Sampling Laboratory Analytical Reports

Sample Summary

Fleming-Lee Shue, Inc.

Job No: JD36517

Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
---------------	----------------	---------	----------	------------------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD36517-1	12/09/21	11:50 BJM	12/10/21	AIR	Soil Vapor Comp.	SSDS EFFLUENT
-----------	----------	-----------	----------	-----	------------------	---------------

Report of Analysis

Client Sample ID:	SSDS EFFLUENT			Date Sampled:	12/09/21
Lab Sample ID:	JD36517-1			Date Received:	12/10/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A566	Percent Solids:	n/a
Method:	TO-15				
Project:	Info Tech High School, 21-16 44th Road, Long Island City, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W56926.D	1	12/28/21 01:15	TCH	n/a	n/a	V2W2534
Run #2							

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

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	13.5	0.80	0.58	ppbv		32.1	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.25	ppbv		ND	2.6	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.15	ppbv		ND	4.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.42	0.80	0.36	ppbv	J	0.87	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.39	ppbv		ND	3.1	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.47	0.80	0.13	ppbv	J	2.3	4.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.31	ppbv		ND	0.63	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.62	ppbv		ND	0.96	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.15	ppbv		ND	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSDS EFFLUENT		
Lab Sample ID:	JD36517-1	Date Sampled:	12/09/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A566
Method:	TO-15	Date Received:	12/10/21
Project:	Info Tech High School, 21-16 44th Road, Long Island City, NY		
		Percent Solids:	n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	11.5	2.0	1.6	ppbv		21.7	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	4.3	0.80	0.42	ppbv		15	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.37	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	0.49	0.80	0.45	ppbv	J	1.7	2.8	1.6	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	70.7	0.80	0.75	ppbv		174	2.0	1.8	ug/m3
75-09-2	84.94	Methylene chloride	1.9	0.80	0.22	ppbv		6.6	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.72	0.80	0.23	ppbv	J	2.7	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.14	ppbv		ND	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499
www.sgs.com/en/usa

FED-EX Tracking #
Order Control # JD36517-85
SGS Quote #
SGS Job # JD 36517

Client / Reporting Information, Project Information, Weather Parameters, Requested Analysis
Company Name: Fleming Lee Shue
Project Name: Info Tech High School
Address: 158 W. 20th St, NYC
City: NYC, State: NY, Zip: 10001
Project Contact: Joel Kane, joel@flemingleeshue.com
Phone: 212-675-3225

Table with columns: Lab Sample #, Field ID / Point of Collection, Air Type, Sampling Equipment Info, Start Sampling Information, Stop Sampling Information.
Row 1: 1, SWS Effluent, SV, AS66, 2L, FC804, 12/9/20, 9:54, 28.5, 34, B3H, 12/9/20, 11:50, 3.0, 39, B3H, X

Turnaround Time (Business days), Data Deliverable Information, Comments / Remarks
Standard - 15 Days
Initial Access: 40-CK approved by:
Label Verification Date:
All NJDEP TO-15 is mandatory Full T1

Sample Custody must be documented below each time samples change possession, including courier delivery.
1. Relinquished by: [Signature], Date Time: 12/9/20 14:50, Received By: B. Hess
2. Relinquished by: [Signature], Date Time: 12/9/20 16:00, Received By: [Signature]
3. Relinquished by: [Signature], Date Time: 12/10/20 11:00, Received By: [Signature]



AIR SAMPLING EQUIPMENT RETURN FORM

CLIENT: Fleming Lee Shue

PROJECT: Info Tech High School

CONTROL# TS-12221-85

JOB # JO 36517

ADDITIONAL SUMMA CANISTERS

2 AS18

ADDITIONAL CONTROLLERS

FC884

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
1 Felix	11/10/11 11:00	2 Permit Lee	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
3		4	
CUSTODY SEAL #'S:		# OF BOXES OR PIECES IN DELIVERY	

NOTES:

SM086-03
Pub date: 3/12/18

SGS Sample Receipt Summary

Job Number: JD36517

Client: BL COMPANIES

Project: CARLL'S CORNER, NJ

Date / Time Received: 12/10/2021 11:00:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|--------------------------|--------------------------|
| 1. Temp criteria achieved: | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>N/A</u> | |
| 3. Cooler media: | <u>N/A</u> | |
| 4. No. Coolers: | <u>N/A</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

Comments

SM089-03
Rev. Date 12/7/17

JD36517: Chain of Custody

Page 3 of 3

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Fleming-Lee Shue, Inc.

Info Tech High School, 21-16 44th Road, Long Island City, NY

SGS Job Number: JD26114

Sampling Date: 06/04/21

Report to:

**Fleming-Lee Shue, Inc.
158 West 29th Street 9th Floor
New York, NY 10001
Mark@FlemingLeeShue.com; joel@FlemingLeeShue.com
ATTN: Mark Hutson**

Total number of pages in report: 275



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

A handwritten signature in black ink that reads "Caitlin Brice".

**Caitlin Brice, M.S.
General Manager**

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

Fleming-Lee Shue, Inc.

Job No: JD26114

Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
---------------	----------------	---------	----------	------------------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD26114-1	06/04/21	09:49 BTH	06/04/21	AIR	Soil Vapor Comp.	SSDS EFFLUENT
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CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fleming-Lee Shue, Inc.

Job No JD26114

Site: Info Tech High School, 21-16 44th Road, Long Island City, NY

Report Date 6/16/2021 9:52:36 AM

On 06/04/2021, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. Job Number of JD26114 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

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

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V2W2391

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD26149-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

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

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

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

Summary of Hits

Job Number: JD26114
Account: Fleming-Lee Shue, Inc.
Project: Info Tech High School, 21-16 44th Road, Long Island City, NY
Collected: 06/04/21



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD26114-1 SSDS EFFLUENT

Acetone		17.4	0.80	0.45	ppbv	TO-15
Benzene		0.58 J	0.80	0.048	ppbv	TO-15
Chloromethane		0.58 J	0.80	0.061	ppbv	TO-15
Dichlorodifluoromethane		0.50 J	0.80	0.066	ppbv	TO-15
Ethanol		18.0	2.0	0.87	ppbv	TO-15
Ethyl Acetate		11.8	0.80	0.15	ppbv	TO-15
Heptane		0.63 J	0.80	0.070	ppbv	TO-15
Hexane		1.5	0.80	0.042	ppbv	TO-15
Isopropyl Alcohol		3.0	0.80	0.26	ppbv	TO-15
Methylene chloride		2.0	0.80	0.058	ppbv	TO-15
Methyl ethyl ketone		1.0	0.80	0.17	ppbv	TO-15
Propylene		1.5 J	2.0	0.064	ppbv	TO-15
2,2,4-Trimethylpentane		0.64 J	0.80	0.087	ppbv	TO-15
Tertiary Butyl Alcohol		2.2	0.80	0.055	ppbv	TO-15
Toluene		1.9	0.80	0.058	ppbv	TO-15
Trichlorofluoromethane		0.39 J	0.40	0.11	ppbv	TO-15
Vinyl Acetate		1.1	0.80	0.14	ppbv	TO-15
m,p-Xylene		0.42 J	0.80	0.14	ppbv	TO-15
Xylenes (total)		0.42 J	0.80	0.068	ppbv	TO-15
Acetone		41.3	1.9	1.1	ug/m3	TO-15
Benzene		1.9 J	2.6	0.15	ug/m3	TO-15
Chloromethane		1.2 J	1.7	0.13	ug/m3	TO-15
Dichlorodifluoromethane		2.5 J	4.0	0.33	ug/m3	TO-15
Ethanol		33.9	3.8	1.6	ug/m3	TO-15
Ethyl Acetate		42.5	2.9	0.54	ug/m3	TO-15
Heptane		2.6 J	3.3	0.29	ug/m3	TO-15
Hexane		5.3	2.8	0.15	ug/m3	TO-15
Isopropyl Alcohol		7.4	2.0	0.64	ug/m3	TO-15
Methylene chloride		6.9	2.8	0.20	ug/m3	TO-15
Methyl ethyl ketone		2.9	2.4	0.50	ug/m3	TO-15
Propylene		2.6 J	3.4	0.11	ug/m3	TO-15
2,2,4-Trimethylpentane		3.0 J	3.7	0.41	ug/m3	TO-15
Tertiary Butyl Alcohol		6.7	2.4	0.17	ug/m3	TO-15
Toluene		7.2	3.0	0.22	ug/m3	TO-15
Trichlorofluoromethane		2.2 J	2.2	0.62	ug/m3	TO-15
Vinyl Acetate		3.9	2.8	0.49	ug/m3	TO-15
m,p-Xylene		1.8 J	3.5	0.61	ug/m3	TO-15
Xylenes (total)		1.8 J	3.5	0.30	ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	SSDS EFFLUENT			Date Sampled:	06/04/21
Lab Sample ID:	JD26114-1			Date Received:	06/04/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	M422	Percent Solids:	n/a
Method:	TO-15				
Project:	Info Tech High School, 21-16 44th Road, Long Island City, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W53960.D	1	06/09/21 15:28	TCH	n/a	n/a	V2W2391
Run #2							

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

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	17.4	0.80	0.45	ppbv		41.3	1.9	1.1	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	0.40	ug/m3
71-43-2	78.11	Benzene	0.58	0.80	0.048	ppbv	J	1.9	2.6	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.11	ppbv		ND	2.7	0.74	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.15	ppbv		ND	1.7	1.6	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.088	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	0.38	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.23	ppbv		ND	4.1	1.2	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	0.50	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	0.39	ug/m3
74-87-3	50.49	Chloromethane	0.58	0.80	0.061	ppbv	J	1.2	1.7	0.13	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.094	ppbv		ND	1.0	0.59	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.088	ppbv		ND	2.8	0.30	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	0.19	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.067	ppbv		ND	0.63	0.27	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.40	0.071	ppbv		ND	3.1	0.55	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	0.34	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	0.36	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	0.76	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.80	0.066	ppbv	J	2.5	4.0	0.33	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.13	ppbv		ND	3.4	1.1	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.047	ppbv		ND	0.63	0.19	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.076	ppbv		ND	2.4	0.46	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.087	ppbv		ND	0.96	0.52	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.070	ppbv		ND	2.4	0.42	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSDS EFFLUENT			Date Sampled:	06/04/21
Lab Sample ID:	JD26114-1			Date Received:	06/04/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	M422	Percent Solids:	n/a
Method:	TO-15				
Project:	Info Tech High School, 21-16 44th Road, Long Island City, NY				

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	18.0	2.0	0.87	ppbv		33.9	3.8	1.6	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.060	ppbv		ND	3.5	0.26	ug/m3
141-78-6	88	Ethyl Acetate	11.8	0.80	0.15	ppbv		42.5	2.9	0.54	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.068	ppbv		ND	3.1	0.52	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.076	ppbv		ND	2.8	0.53	ug/m3
142-82-5	100.2	Heptane	0.63	0.80	0.070	ppbv	J	2.6	3.3	0.29	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.18	ppbv		ND	3.8	1.9	ug/m3
110-54-3	86.17	Hexane	1.5	0.80	0.042	ppbv		5.3	2.8	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.0	0.80	0.26	ppbv		7.4	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	2.0	0.80	0.058	ppbv		6.9	2.8	0.20	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.0	0.80	0.17	ppbv		2.9	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	0.57	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	0.28	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	0.53	ug/m3
115-07-1	42	Propylene	1.5	2.0	0.064	ppbv	J	2.6	3.4	0.11	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.076	ppbv		ND	3.4	0.32	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.13	ppbv		ND	2.2	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.40	0.11	ppbv		ND	2.7	0.76	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.12	ppbv		ND	2.2	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.35	ppbv		ND	3.0	2.6	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	0.64	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	0.64	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.64	0.80	0.087	ppbv	J	3.0	3.7	0.41	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.2	0.80	0.055	ppbv		6.7	2.4	0.17	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.12	ppbv		ND	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.20	ppbv		ND	2.4	0.59	ug/m3
108-88-3	92.14	Toluene	1.9	0.80	0.058	ppbv		7.2	3.0	0.22	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.39	0.40	0.11	ppbv	J	2.2	2.2	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.089	ppbv		ND	0.41	0.23	ug/m3
108-05-4	86	Vinyl Acetate	1.1	0.80	0.14	ppbv		3.9	2.8	0.49	ug/m3
	106.2	m,p-Xylene	0.42	0.80	0.14	ppbv	J	1.8	3.5	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.068	ppbv		ND	3.5	0.30	ug/m3
1330-20-7	106.2	Xylenes (total)	0.42	0.80	0.068	ppbv	J	1.8	3.5	0.30	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

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

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2018 MDL Study - Method: TO-15



AIR

AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX 732-329-3499
www.sgs.com/en/usa

FED-EX Tracking #	Order Control #
SGS Quote #	SGS Job #
	JD 26114

Client / Reporting Information		Project Information		Weather Parameters		Requested Analysis	
Company Name Fleming Lee Shue	Project Name Info Tech High School	Temperature (Fahrenheit)					
Address 158 W. 24th St. Floor 9	Street 21-16 44th Road	Start: 70	Maximum: 70				
City NYC State NY Zip 10001	City Long Island City State NY	Stop: 70	Minimum: 70				
Project Contact Joel Kone Email joel@flemingleeshue.com	Project #	Atmospheric Pressure (inches of Hg)					
Phone # 212-675-3225 Fax #	Client Purchase Order #	Start: 29.94	Maximum: 29.16				
Sampler(s) Name(s) B. Hess		Other weather comment:					

Lab Sample #	Field ID / Point of Collection	Air Type		Sampling Equipment Info			Start Sampling Information					Stop Sampling Information					Requested Analysis
		Indoor (I)	Soil Vap (SV)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	
1	SSDS EFFLUENT	SV		M422	2L	FC192	6/14/12	7:54	2.0	70	BSM	6/14/12	9:49	4.0	70	BSM	TO-15

Turnaround Time (Business days)	Approved By: _____	Date: _____	All NJDEP TO-15 is mandatory Full T1	Comments / Remarks
<input checked="" type="checkbox"/> Standard - 15 Days <input type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day <input type="checkbox"/> Other	Comm A _____ Comm B _____ Reduced T2 _____ Full T1 _____ Other: _____ DKQP reporting _____		INITIAL ASSESSMENT 5.4A LABEL VERIFICATION _____ Sample inventory is verified upon receipt in the Laboratory	

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Laboratory:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
1	6/13/12 6:30	B. Hess	2	6/14/12 12:00	Patricia Mitchell
Relinquished by:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
3	6/14/12 20:45	JFC	4		JFC
Relinquished by:	Date/Time	Received By:	Custody Seal #		
5					



AIR-SAMPLING EQUIPMENT RETURN FORM

CLIENT: Fleming-Lee

PROJECT: Info Tech

CONTROL# _____

JOB # JD 26114

ADDITIONAL SUMMA CANISTERS
2 AS29

ADDITIONAL CONTROLLERS
FC227

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
1 <u>Fleming-Lee</u>	<u>6/19/18</u>	2 <u>Jeemit Patel</u>	
3		4	
CUSTODY SEAL #S:		# OF BOXES OR PIECES IN DELIVERY	

NOTES:

SM086-03
Pub date: 3/12/18

SGS Sample Receipt Summary

Job Number: JD26114

Client: FLEMING-LEE SHUE, INC.

Project: INFO TECH HIGH SCHOOL, 21-16 44TH ROAD,

Date / Time Received: 6/4/2021 8:45:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

- | | |
|--|---|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature

- | | |
|--|---------------|
| 1. Temp criteria achieved: <input type="checkbox"/> <input type="checkbox"/> | <u>Y or N</u> |
| 2. Cooler temp verification: _____ | N/A |
| 3. Cooler media: _____ | N/A |
| 4. No. Coolers: _____ | N/A |

Quality Control Preservation

- | | | | | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|----------|-----------|----------|------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |

Sample Integrity - Documentation

- | | | | | | |
|--|-------------------------------------|--------------------------|----------|-----------|----------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>Y</u> | <u>or</u> | <u>N</u> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |

Sample Integrity - Condition

- | | | | | | |
|----------------------------------|-------------------------------------|--------------------------|----------|-----------|----------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>Y</u> | <u>or</u> | <u>N</u> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |
| 3. Condition of sample: | Intact | | | | |

Sample Integrity - Instructions

- | | | | | | | |
|--|-------------------------------------|-------------------------------------|----------|-----------|----------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: <u>212820</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
--------------------	------------------------	------------------------	------------------------

Comments

SM089-03
Rev. Date 12/7/17

JD26114: Chain of Custody

Page 3 of 3

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5

Summa Canister and Flow Controller Log

Job Number: JD26114
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: Info Tech High School, 21-16 44th Road, Long Island City, NY
Received: 06/04/21

SUMMA CANISTERS													
Shipping						Receiving							
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
M422	1	29.4	06/01/21	WC	CP111845W43878.D	JD26114-1	06/07/21	WC		.5			1

FLOW CONTROLLERS / OTHER										
Shipping					Receiving					
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type	
FC182	06/01/21	WC	7.2	2	06/08/21	WC	7.4	2.7	Flow Controller	

SGS Bottle Order(s):
 JS-06121-194

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 06/01/21 70 29.92

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Internal Sample Tracking Chronicle

Fleming-Lee Shue, Inc.

Job No: JD26114

Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD26114-1	Collected: 04-JUN-21 09:49 SSDS EFFLUENT	09-JUN-21 15:28	BTH	Received: 04-JUN-21	JP	
JD26114-1	TO-15	09-JUN-21 15:28	TCH			VTO15NYSVLL

5.3
5

SGS Internal Chain of Custody

Job Number: JD26114
Account: FLSNYYNY Fleming-Lee Shue, Inc.
Project: Info Tech High School, 21-16 44th Road, Long Island City, NY
Received: 06/04/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD26114-1.1	Manish Kewalramani	Air Storage	06/04/21 21:35	Return to Storage
JD26114-1.1	Air Storage	Thomas Hilbig	06/09/21 14:24	Retrieve from Storage
JD26114-1.1	Thomas Hilbig	GCMS2W	06/09/21 14:24	Load on Instrument
JD26114-1.1	GCMS2W	Thomas Hilbig	06/11/21 12:59	Unload from Instrument
JD26114-1.1	Thomas Hilbig	Air Storage	06/11/21 13:00	Return to Storage
JD26114-1.2	Manish Kewalramani	Air Storage	06/04/21 21:35	Return to Storage

5.4

5

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: TO-15 (VTO14/15)
Instrument(s): GCMS3W, GCMS5W, GCMS6W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: July, 2018

Cmpd./Element/Param. Name	Analysis Date	Spike ppbv	Replicate Spikes							X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
			R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv					
Acetone	4-Apr-18	0.1	0.15	0.17	0.14	0.17	0.17	0.09	0.09	0.14	139.43	0.04	0.11	0.89
Acrylonitrile	6-Mar-18	0.1	0.11	0.13	0.13	0.10	0.10	0.09	0.10	0.11	110.28	0.02	0.05	1.97
Acetonitrile	4-Apr-18	0.1	0.17	0.13	0.16	0.15	0.21	0.09	0.07	0.14	140.53	0.05	0.15	0.67
1,3-Butadiene	4-Apr-18	0.1	0.10	0.11	0.10	0.10	0.09	0.07	0.07	0.09	93.21	0.01	0.05	2.16
Benzene	6-Mar-18	0.1	0.10	0.10	0.10	0.09	0.09	0.10	0.10	0.10	96.63	0.00	0.01	8.40
Bromobenzene	4-Apr-18	0.04	0.05	0.04	0.05	0.04	0.04	0.03	0.03	0.04	103.07	0.01	0.02	1.79
Bromodichloromethane	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.05	120.64	0.01	0.03	1.49
Bromoform	4-Apr-18	0.04	0.06	0.06	0.06	0.05	0.05	0.06	0.03	0.05	127.36	0.01	0.04	1.07
Bromomethane	4-Apr-18	0.04	0.06	0.05	0.05	0.06	0.06	0.04	0.04	0.05	128.54	0.01	0.02	1.82
Bromoethene	4-Apr-18	0.04	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.04	103.18	0.01	0.02	1.82
n-Butane	9-Jul-18	0.2	0.20	0.18	0.20	0.18	0.12	0.20	0.15	0.18	88.23	0.03	0.10	2.10
Benzyl Chloride	4-Apr-18	0.1	0.10	0.09	0.09	0.08	0.08	0.05	0.05	0.08	77.01	0.02	0.06	1.77
n-Butylbenzene	6-Mar-18	0.1	0.07	0.07	0.07	0.09	0.07	0.05	0.06	0.07	69.64	0.01	0.04	2.69
sec-Butylbenzene	6-Mar-18	0.1	0.09	0.10	0.09	0.11	0.10	0.07	0.08	0.09	91.41	0.01	0.04	2.26
tert-Butylbenzene	6-Mar-18	0.1	0.09	0.10	0.10	0.11	0.10	0.07	0.09	0.09	93.20	0.01	0.04	2.71
Carbon disulfide	16-Mar-18	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.03	84.90	0.01	0.02	1.69
Chlorobenzene	4-Apr-18	0.04	0.06	0.05	0.05	0.05	0.05	0.03	0.04	0.05	121.74	0.01	0.03	1.53
Chlorodifluoromethane	4-Apr-18	0.1	0.11	0.12	0.12	0.12	0.12	0.11	0.07	0.10	97.42	0.03	0.10	0.96
Chloroethane	4-Apr-18	0.1	0.11	0.10	0.10	0.10	0.10	0.11	0.08	0.10	98.82	0.02	0.05	2.07
Chlorotrifluoroethene	16-Mar-18	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.05	0.04	96.91	0.00	0.01	2.74
Chloroform	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.04	109.12	0.01	0.02	2.01
Chloromethane	4-Apr-18	0.1	0.09	0.10	0.09	0.10	0.10	0.08	0.09	0.09	92.74	0.00	0.02	6.54
3-Chloropropane	16-Mar-18	0.1	0.08	0.08	0.07	0.05	0.06	0.08	0.07	0.07	70.88	0.01	0.04	2.52
2-Chlorotoluene	4-Apr-18	0.1	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.08	82.41	0.01	0.03	4.00
Carbon tetrachloride	4-Apr-18	0.04	0.04	0.04	0.05	0.05	0.05	0.03	0.03	0.04	105.24	0.01	0.02	1.70
Cyclohexane	4-Apr-18	0.1	0.06	0.07	0.06	0.06	0.06	0.08	0.08	0.07	66.65	0.01	0.02	4.55
1,1-Dichloroethane	4-Apr-18	0.1	0.09	0.10	0.10	0.10	0.10	0.09	0.09	0.10	95.35	0.00	0.01	8.62
1,1-Dichloroethylene	6-Mar-18	0.04	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.05	122.85	0.01	0.02	2.40
1,2-Dibromoethane	4-Apr-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	92.37	0.01	0.02	2.25
1,2-Dichloroethane	4-Apr-18	0.04	0.04	0.05	0.04	0.05	0.05	0.03	0.03	0.04	102.51	0.01	0.02	1.92
1,2-Dichloropropane	6-Mar-18	0.04	0.05	0.05	0.05	0.04	0.04	0.05	0.06	0.05	123.28	0.01	0.02	2.09
1,3-Dichloropropane	6-Mar-18	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.03	79.01	0.01	0.02	2.54
1,4-Dioxane	16-Mar-18	0.1	0.10	0.09	0.07	0.09	0.09	0.06	0.05	0.08	77.81	0.02	0.05	1.93
Dichlorodifluoromethane	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	113.93	0.01	0.02	2.43

Dichlorofluoromethane	4-Apr-18	0.04	0.05	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.05	0.05	121.63	0.01	0.03	1.44	
Dibromochloromethane	4-Apr-18	0.04	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.03	0.03	0.05	0.05	119.40	0.01	0.03	1.20
Dibromomethane	4-Apr-18	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.04	0.04	0.04	0.04	0.06	0.06	0.04	0.04	0.04	0.05	0.05	129.43	0.01	0.02	1.61
trans-1,2-Dichloroethylene	16-Mar-18	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	78.89	0.00	0.01	5.45
cis-1,2-Dichloroethylene	16-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	84.39	0.00	0.01	3.43
cis-1,3-Dichloropropene	6-Mar-18	0.1	0.10	0.10	0.10	0.10	0.10	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	81.08	0.01	0.02	5.13
m-Dichlorobenzene	4-Apr-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	87.14	0.01	0.02	2.12
o-Dichlorobenzene	6-Mar-18	0.1	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	79.00	0.01	0.02	4.58
p-Dichlorobenzene	4-Apr-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	84.30	0.01	0.02	2.29
trans-1,3-Dichloropropene	4-Apr-18	0.1	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.07	74.34	0.01	0.02	5.13
Di-isopropyl ether	6-Mar-18	0.2	0.21	0.22	0.22	0.22	0.22	0.21	0.22	0.20	0.20	0.20	0.20	0.22	0.22	0.21	0.21	0.21	0.21	0.21	106.79	0.01	0.03	6.78
2,3-Dimethylpentane	4-Apr-18	0.1	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.08	0.08	76.36	0.01	0.02	5.07
2,4-Dimethylpentane	4-Apr-18	0.1	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	89.67	0.01	0.02	5.70
Ethanol	4-Apr-18	0.1	0.20	0.20	0.20	0.20	0.22	0.21	0.21	0.10	0.11	0.09	0.09	0.21	0.21	0.21	0.06	0.06	0.17	168.18	0.07	0.22	0.46	
Ethylbenzene	6-Mar-18	0.1	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.11	0.09	0.10	0.09	0.10	0.09	0.09	0.10	0.10	0.09	96.79	0.00	0.02	6.61
Ethyl Acetate	6-Mar-18	0.1	0.08	0.08	0.08	0.08	0.10	0.09	0.09	0.06	0.06	0.06	0.06	0.09	0.08	0.08	0.08	0.08	0.08	0.08	79.31	0.01	0.04	2.66
Ethyl Acrylate	6-Mar-18	0.1	0.08	0.09	0.09	0.10	0.08	0.08	0.09	0.08	0.06	0.06	0.06	0.08	0.08	0.08	0.06	0.06	0.08	0.08	76.98	0.01	0.05	2.16
4-Ethyltoluene	6-Mar-18	0.1	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.07	0.07	0.08	82.05	0.01	0.03	3.38	
Freon 113	4-Apr-18	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.04	103.42	0.01	0.02	2.34	
Freon 114	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.05	115.71	0.01	0.02	2.09	
Freon 115	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	99.91	0.00	0.01	5.22
Freon 123	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	107.96	0.01	0.02	2.05	
Freon 123A	16-Mar-18	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.08	0.08	0.08	0.08	0.05	0.05	0.05	0.08	0.08	0.05	131.10	0.02	0.06	0.63	
Freon 141B	4-Apr-18	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.06	0.06	132.21	0.01	0.03	1.30	
Freon 142B	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.05	120.27	0.01	0.03	1.46	
Freon 143a	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.05	119.26	0.01	0.02	1.96	
Freon 152A	4-Apr-18	0.1	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.09	93.15	0.01	0.03	3.93	
Heptane	16-Mar-18	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	51.50	0.01	0.02	2.29	
Hexachlorobutadiene	4-Apr-18	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.04	0.04	0.04	0.06	0.06	0.06	0.04	0.04	0.06	141.60	0.01	0.05	0.88	
Hexachloroethane	4-Apr-18	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.04	0.04	0.04	0.07	0.07	0.07	0.04	0.04	0.06	148.40	0.02	0.05	0.75	
Hexane	6-Mar-18	0.04	0.04	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	101.95	0.00	0.01	3.79	
2-Hexanone	6-Mar-18	0.1	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.05	0.05	0.06	0.07	0.07	0.06	0.06	0.07	0.07	68.64	0.01	0.04	2.76	
Iodomethane	6-Mar-18	0.1	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.10	0.10	0.10	0.09	0.09	0.09	0.10	0.09	0.10	96.55	0.00	0.01	8.77	
Isopropylbenzene	6-Mar-18	0.1	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.09	0.09	0.09	0.10	0.10	0.10	0.08	0.08	0.10	95.35	0.01	0.03	3.65	
Isopropyl Alcohol	9-Jul-18	0.2	0.32	0.32	0.32	0.32	0.31	0.32	0.29	0.27	0.27	0.33	0.33	0.31	0.31	0.31	0.33	0.33	0.31	154.14	0.02	0.06	3.09	
p-Isopropyltoluene	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.07	0.07	0.07	0.07	0.10	0.10	0.09	0.09	0.09	0.09	85.96	0.01	0.04	2.82	
Methylene chloride	6-Mar-18	0.1	0.13	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	130.26	0.00	0.01	6.92	
Methyl ethyl ketone	6-Mar-18	0.1	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.06	0.06	0.06	0.06	0.10	0.10	0.09	0.06	0.06	0.08	80.25	0.01	0.04	2.38	
Methyl Isobutyl Ketone	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.06	0.06	0.06	0.08	0.08	0.08	0.06	0.06	0.08	82.66	0.01	0.04	2.78	
Methyl Tert Butyl Ether	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.04	95.74	0.01	0.02	2.09	
Methylmethacrylate	6-Mar-18	0.1	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.06	0.06	0.06	0.06	0.09	0.09	0.09	0.06	0.06	0.08	79.33	0.01	0.03	3.07	
Naphthalene	16-Mar-18	0.2	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	25.45	0.03	0.09	2.20	
Nonane	16-Mar-18	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.03	69.05	0.00	0.01	2.98	
Octane	4-Apr-18	0.1	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07	0.06	57.51	0.01	0.03	3.20	
Pentane	16-Mar-18	0.2	0.20	0.20	0.20	0.20	0.18	0.20	0.17	0.17	0.17	0.16	0.16	0.18	0.18	0.18	0.16	0.16	0.18	91.02	0.02	0.06	3.63	

n-Propylbenzene	6-Mar-18	0.1	0.08	0.09	0.08	0.09	0.08	0.09	0.09	0.09	0.07	0.07	0.08	81.29	0.01	0.03	3.80
Propylene	16-Mar-18	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	115.79	0.01	0.02	2.51
Styrene	4-Apr-18	0.1	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	64.67	0.01	0.02	5.30
1,1,1-Trichloroethane	4-Apr-18	0.04	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.05	120.15	0.01	0.03	1.20
1,1,1,2-Tetrachloroethane	4-Apr-18	0.04	0.05	0.06	0.06	0.06	0.05	0.06	0.05	0.05	0.04	0.03	0.05	123.96	0.01	0.04	1.10
1,1,2,2-Tetrachloroethane	4-Apr-18	0.04	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.03	0.03	0.05	113.92	0.01	0.03	1.47
1,1,2-Trichloroethane	4-Apr-18	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.02	0.03	0.04	95.93	0.01	0.03	1.31
1,2,4-Trichlorobenzene	6-Mar-18	0.2	0.12	0.16	0.11	0.11	0.11	0.10	0.10	0.08	0.08	0.08	0.11	54.59	0.03	0.09	2.26
1,2,3-Trichloropropane	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.06	0.04	94.35	0.01	0.04	1.12
1,2,4-Trimethylbenzene	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.08	84.25	0.01	0.03	3.03
1,3,5-Trimethylbenzene	6-Mar-18	0.1	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.08	0.08	0.08	0.09	89.95	0.01	0.03	2.98
2,2,4-Trimethylpentane	6-Mar-18	0.1	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	100.21	0.01	0.02	4.59
Tertiary Butyl Alcohol	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.04	97.25	0.00	0.01	2.90
Tetrachloroethylene	6-Mar-18	0.2	0.20	0.22	0.21	0.23	0.21	0.23	0.21	0.21	0.21	0.22	0.21	106.97	0.01	0.03	6.49
Tetrahydrofuran	16-Mar-18	0.1	0.07	0.05	0.05	0.08	0.05	0.08	0.06	0.06	0.03	0.04	0.05	54.16	0.02	0.05	1.99
Toluene	6-Mar-18	0.1	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	92.31	0.00	0.01	6.94
Trichloroethylene	4-Apr-18	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.04	101.18	0.01	0.02	2.10
Trichlorofluoromethane	4-Apr-18	0.04	0.06	0.06	0.05	0.06	0.05	0.06	0.06	0.04	0.04	0.04	0.05	129.81	0.01	0.03	1.42
Vinyl chloride	4-Apr-18	0.1	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.10	97.80	0.01	0.02	4.49
Vinyl Acetate	6-Mar-18	0.1	0.06	0.04	0.04	0.06	0.04	0.06	0.06	0.06	0.04	0.04	0.05	50.75	0.01	0.03	2.93
m,p-Xylene	6-Mar-18	0.2	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.16	0.18	89.18	0.01	0.03	5.86
o-Xylene	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.09	87.80	0.01	0.02	5.90
TVHC As Equiv Pentane	16-Mar-18	0.1	0.14	0.14	0.15	0.13	0.13	0.14	0.14	0.11	0.11	0.12	0.13	133.35	0.01	0.04	2.64

MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2391-MB	2W53954.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD26114
 Account: FLSNYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2391-MB	2W53954.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD26114
Account: FLSNYYNY Fleming-Lee Shue, Inc.
Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2391-MB	2W53954.D	1	06/09/21	TCH	n/a	n/a	V2W2391

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

JD26114-1

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	97% 65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.80	30	ppbv	JN
	Total TIC, Volatile		0	ppbv	

6.1.1
6

Method Blank Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-MB	5W43872.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here applies to the following samples:

Method: TO-15

V5W1802-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD26114
 Account: FLSNYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-MB	5W43872.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here applies to the following samples:

Method: TO-15

V5W1802-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-MB	5W43872.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here applies to the following samples:

Method: TO-15

V5W1802-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	102% 65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.05	10	ppbv	JN
	Total TIC, Volatile		0	ppbv	

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Blank Spike/Blank Spike Duplicate Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2391-BS	2W53951.D	1	06/09/21	TCH	n/a	n/a	V2W2391
V2W2391-BSD	2W53952.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	7.8	78	7.5	75	4	70-130/30
106-99-0	1,3-Butadiene	10	9.7	97	9.6	96	1	70-130/30
71-43-2	Benzene	10	7.9	79	7.6	76	4	70-130/30
75-27-4	Bromodichloromethane	10	10	100	9.6	96	4	70-130/30
75-25-2	Bromoform	10	11.2	112	10.9	109	3	70-130/30
74-83-9	Bromomethane	10	8.8	88	8.6	86	2	70-130/30
593-60-2	Bromoethene	10	8.6	86	8.4	84	2	70-130/30
100-44-7	Benzyl Chloride	10	11.8	118	11.4	114	3	70-130/30
75-15-0	Carbon disulfide	10	10.3	103	9.9	99	4	70-130/30
108-90-7	Chlorobenzene	10	8.3	83	7.9	79	5	70-130/30
75-00-3	Chloroethane	10	9.2	92	9.0	90	2	70-130/30
67-66-3	Chloroform	10	8.7	87	8.4	84	4	70-130/30
74-87-3	Chloromethane	10	10.3	103	9.9	99	4	70-130/30
107-05-1	3-Chloropropene	10	8.8	88	8.7	87	1	70-130/30
95-49-8	2-Chlorotoluene	10	9.1	91	8.5	85	7	70-130/30
56-23-5	Carbon tetrachloride	10	10.7	107	10.4	104	3	70-130/30
110-82-7	Cyclohexane	10	8.2	82	7.9	79	4	70-130/30
75-34-3	1,1-Dichloroethane	10	8.8	88	8.5	85	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.1	81	8.0	80	1	70-130/30
106-93-4	1,2-Dibromoethane	10	9.0	90	8.9	89	1	70-130/30
107-06-2	1,2-Dichloroethane	10	9.3	93	9.2	92	1	70-130/30
78-87-5	1,2-Dichloropropane	10	8.9	89	8.5	85	5	70-130/30
123-91-1	1,4-Dioxane	10	8.0	80	7.8	78	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.1	111	10.8	108	3	70-130/30
124-48-1	Dibromochloromethane	10	10.5	105	10.3	103	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.2	82	8.0	80	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.2	82	7.9	79	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.7	97	9.3	93	4	70-130/30
541-73-1	m-Dichlorobenzene	10	8.9	89	8.6	86	3	70-130/30
95-50-1	o-Dichlorobenzene	10	9.1	91	9.0	90	1	70-130/30
106-46-7	p-Dichlorobenzene	10	8.9	89	8.7	87	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	9.5	95	3	70-130/30
64-17-5	Ethanol	10	10.1	101	9.2	92	9	70-130/30
100-41-4	Ethylbenzene	10	7.5	75	7.3	73	3	70-130/30
141-78-6	Ethyl Acetate	10	9.7	97	9.1	91	6	70-130/30
622-96-8	4-Ethyltoluene	10	8.9	89	8.6	86	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2391-BS	2W53951.D	1	06/09/21	TCH	n/a	n/a	V2W2391
V2W2391-BSD	2W53952.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.3	83	8.0	80	4	70-130/30
76-14-2	Freon 114	10	9.1	91	8.7	87	4	70-130/30
142-82-5	Heptane	10	9.6	96	9.1	91	5	70-130/30
87-68-3	Hexachlorobutadiene	10	10.5	105	10.3	103	2	70-130/30
110-54-3	Hexane	10	8.5	85	8.4	84	1	70-130/30
591-78-6	2-Hexanone	10	8.5	85	8.4	84	1	70-130/30
67-63-0	Isopropyl Alcohol	10	7.9	79	7.5	75	5	70-130/30
75-09-2	Methylene chloride	10	8.0	80	7.8	78	3	70-130/30
78-93-3	Methyl ethyl ketone	10	8.4	84	8.1	81	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.3	93	8.9	89	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.2	82	7.9	79	4	70-130/30
80-62-6	Methylmethacrylate	10	9.0	90	8.8	88	2	70-130/30
115-07-1	Propylene	10	10	100	9.7	97	3	70-130/30
100-42-5	Styrene	10	8.3	83	8.0	80	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.4	94	9.2	92	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.2	92	8.9	89	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	8.8	88	8.5	85	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93	9.0	90	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.4	94	9.0	90	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.0	90	8.7	87	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.7	87	8.4	84	4	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.0	90	8.7	87	3	70-130/30
127-18-4	Tetrachloroethylene	10	8.2	82	8.0	80	2	70-130/30
109-99-9	Tetrahydrofuran	10	8.5	85	8.2	82	4	70-130/30
108-88-3	Toluene	10	7.7	77	7.4	74	4	70-130/30
79-01-6	Trichloroethylene	10	8.2	82	7.9	79	4	70-130/30
75-69-4	Trichlorofluoromethane	10	9.1	91	8.8	88	3	70-130/30
75-01-4	Vinyl chloride	10	9.4	94	9.0	90	4	70-130/30
108-05-4	Vinyl Acetate	10	9.8	98	9.2	92	6	70-130/30
	m,p-Xylene	20	15.1	76	14.7	74	3	70-130/30
95-47-6	o-Xylene	10	7.7	77	7.4	74	4	70-130/30
1330-20-7	Xylenes (total)	30	22.8	76	22.0	73	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2391-BS	2W53951.D	1	06/09/21	TCH	n/a	n/a	V2W2391
V2W2391-BSD	2W53952.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	97%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-BS	5W43869.D	1	05/25/21	TCH	n/a	n/a	V5W1802
V5W1802-BSD	5W43870.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here applies to the following samples:

Method: TO-15

V5W1802-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.4	94	9.4	94	0	70-130/30
106-99-0	1,3-Butadiene	10	10.9	109	11.3	113	4	70-130/30
71-43-2	Benzene	10	9.5	95	9.5	95	0	70-130/30
75-27-4	Bromodichloromethane	10	8.9	89	8.9	89	0	70-130/30
75-25-2	Bromoform	10	10.1	101	10.3	103	2	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.6	96	0	70-130/30
593-60-2	Bromoethene	10	9.6	96	9.0	90	6	70-130/30
100-44-7	Benzyl Chloride	10	11.0	110	11.3	113	3	70-130/30
75-15-0	Carbon disulfide	10	9.2	92	9.1	91	1	70-130/30
108-90-7	Chlorobenzene	10	9.5	95	9.5	95	0	70-130/30
75-00-3	Chloroethane	10	10.8	108	11.0	110	2	70-130/30
67-66-3	Chloroform	10	9.3	93	9.3	93	0	70-130/30
74-87-3	Chloromethane	10	10.1	101	10.3	103	2	70-130/30
107-05-1	3-Chloropropene	10	9.8	98	9.8	98	0	70-130/30
95-49-8	2-Chlorotoluene	10	9.8	98	10	100	2	70-130/30
56-23-5	Carbon tetrachloride	10	9.5	95	9.6	96	1	70-130/30
110-82-7	Cyclohexane	10	8.7	87	8.8	88	1	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	9.1	91	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.7	97	9.6	96	1	70-130/30
106-93-4	1,2-Dibromoethane	10	9.5	95	9.5	95	0	70-130/30
107-06-2	1,2-Dichloroethane	10	9.4	94	9.4	94	0	70-130/30
78-87-5	1,2-Dichloropropane	10	8.6	86	8.7	87	1	70-130/30
123-91-1	1,4-Dioxane	10	8.4	84	8.4	84	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.6	96	9.7	97	1	70-130/30
124-48-1	Dibromochloromethane	10	9.6	96	9.7	97	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.2	92	9.2	92	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.2	92	9.2	92	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	8.4	84	8.4	84	0	70-130/30
541-73-1	m-Dichlorobenzene	10	10.5	105	10.7	107	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10.4	104	10.6	106	2	70-130/30
106-46-7	p-Dichlorobenzene	10	11.0	110	11.3	113	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.3	83	8.3	83	0	70-130/30
64-17-5	Ethanol	10	9.0	90	8.8	88	2	70-130/30
100-41-4	Ethylbenzene	10	9.1	91	9.1	91	0	70-130/30
141-78-6	Ethyl Acetate	10	9.7	97	9.8	98	1	70-130/30
622-96-8	4-Ethyltoluene	10	9.7	97	9.9	99	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-BS	5W43869.D	1	05/25/21	TCH	n/a	n/a	V5W1802
V5W1802-BSD	5W43870.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here applies to the following samples:

Method: TO-15

V5W1802-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.2	92	9.1	91	1	70-130/30
76-14-2	Freon 114	10	9.7	97	9.8	98	1	70-130/30
142-82-5	Heptane	10	8.8	88	8.7	87	1	70-130/30
87-68-3	Hexachlorobutadiene	10	8.5	85	8.7	87	2	70-130/30
110-54-3	Hexane	10	9.7	97	9.7	97	0	70-130/30
591-78-6	2-Hexanone	10	7.6	76	7.7	77	1	70-130/30
67-63-0	Isopropyl Alcohol	10	9.5	95	9.3	93	2	70-130/30
75-09-2	Methylene chloride	10	8.6	86	8.6	86	0	70-130/30
78-93-3	Methyl ethyl ketone	10	10.5	105	10.7	107	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.8	88	8.9	89	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.6	86	8.5	85	1	70-130/30
80-62-6	Methylmethacrylate	10	9.5	95	9.5	95	0	70-130/30
115-07-1	Propylene	10	10.4	104	10.8	108	4	70-130/30
100-42-5	Styrene	10	9.7	97	9.9	99	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	9.3	93	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.1	91	9.3	93	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.1	91	9.2	92	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.8	118	12.1	121	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	9.9	99	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.6	96	9.7	97	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.4	84	8.3	83	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.0	90	8.9	89	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.8	98	10.0	100	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.0	100	10.2	102	2	70-130/30
108-88-3	Toluene	10	8.2	82	8.3	83	1	70-130/30
79-01-6	Trichloroethylene	10	8.9	89	9.0	90	1	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	9.2	92	9	70-130/30
75-01-4	Vinyl chloride	10	10.3	103	10.5	105	2	70-130/30
108-05-4	Vinyl Acetate	10	9.2	92	9.0	90	2	70-130/30
	m,p-Xylene	20	18.2	91	18.5	93	2	70-130/30
95-47-6	o-Xylene	10	9.0	90	9.2	92	2	70-130/30
1330-20-7	Xylenes (total)	30	27.2	91	27.6	92	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-BS	5W43869.D	1	05/25/21	TCH	n/a	n/a	V5W1802
V5W1802-BSD	5W43870.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here applies to the following samples:

Method: TO-15

V5W1802-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD26149-1DUP	2W53959.D	1	06/09/21	TCH	n/a	n/a	V2W2391
JD26149-1	2W53958.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Compound	JD26149-1		DUP		Q	RPD	Limits
		ppbv	Q	ppbv	Q			
67-64-1	Acetone	14.5		13.8			5	25
106-99-0	1,3-Butadiene	ND		ND			nc	25
71-43-2	Benzene	0.42	J	0.39	J		7	25
75-27-4	Bromodichloromethane	ND		ND			nc	25
75-25-2	Bromoform	ND		ND			nc	25
74-83-9	Bromomethane	ND		ND			nc	25
593-60-2	Bromoethene	ND		ND			nc	25
100-44-7	Benzyl Chloride	ND		ND			nc	25
75-15-0	Carbon disulfide	ND		ND			nc	25
108-90-7	Chlorobenzene	ND		ND			nc	25
75-00-3	Chloroethane	ND		ND			nc	25
67-66-3	Chloroform	ND		ND			nc	25
74-87-3	Chloromethane	0.46	J	0.47	J		2	25
107-05-1	3-Chloropropene	ND		ND			nc	25
95-49-8	2-Chlorotoluene	ND		ND			nc	25
56-23-5	Carbon tetrachloride	ND		ND			nc	25
110-82-7	Cyclohexane	ND		ND			nc	25
75-34-3	1,1-Dichloroethane	5.6		5.2			7	25
75-35-4	1,1-Dichloroethylene	2.6		2.6			0	25
106-93-4	1,2-Dibromoethane	ND		ND			nc	25
107-06-2	1,2-Dichloroethane	ND		ND			nc	25
78-87-5	1,2-Dichloropropane	ND		ND			nc	25
123-91-1	1,4-Dioxane	ND		ND			nc	25
75-71-8	Dichlorodifluoromethane	ND		ND			nc	25
124-48-1	Dibromochloromethane	ND		ND			nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND			nc	25
156-59-2	cis-1,2-Dichloroethylene	1.9		1.7			11	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND			nc	25
541-73-1	m-Dichlorobenzene	ND		ND			nc	25
95-50-1	o-Dichlorobenzene	ND		ND			nc	25
106-46-7	p-Dichlorobenzene	ND		ND			nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND			nc	25
64-17-5	Ethanol	22.9		22.3			3	25
100-41-4	Ethylbenzene	ND		ND			nc	25
141-78-6	Ethyl Acetate	37.5		36.1			4	25
622-96-8	4-Ethyltoluene	ND		ND			nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD26114
 Account: FLSNYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD26149-1DUP	2W53959.D	1	06/09/21	TCH	n/a	n/a	V2W2391
JD26149-1	2W53958.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Compound	JD26149-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	7.4		7.2		3	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	2.3		2.3		0	25
75-09-2	Methylene chloride	2.5		3.1		21	25
78-93-3	Methyl ethyl ketone	0.64	J	0.59	J	8	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	23.1		21.7		6	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	0.72	J	0.67	J	7	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	0.40	J	0.41	J	2	25
75-65-0	Tertiary Butyl Alcohol	0.96		0.86		11	25
127-18-4	Tetrachloroethylene	2.7		2.6		4	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.97		0.96		1	25
79-01-6	Trichloroethylene	5.7		5.6		2	25
75-69-4	Trichlorofluoromethane	0.42	J	0.51	J	19	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	0.84		0.77	J	9	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	0.84		0.77	J	9	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD26114
Account: FLSNYYNY Fleming-Lee Shue, Inc.
Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD26149-1DUP	2W53959.D	1	06/09/21	TCH	n/a	n/a	V2W2391
JD26149-1	2W53958.D	1	06/09/21	TCH	n/a	n/a	V2W2391

The QC reported here applies to the following samples:

Method: TO-15

JD26114-1

CAS No.	Surrogate Recoveries	DUP	JD26149-1	Limits
460-00-4	4-Bromofluorobenzene	98%	97%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-SCC	5W43878.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here (Summa A516) applies to the following samples:

Method: TO-15

Batch CP11184 cleaned 05/04/21: JD26114-1(M422)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.80	0.45	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.048	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.088	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.23	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.061	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.094	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.088	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.067	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.80	0.071	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.066	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.13	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.047	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.076	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.087	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.070	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	0.87	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.060	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.15	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.12	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD26114
 Account: FLSNYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-SCC	5W43878.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here (Summa A516) applies to the following samples: Method: TO-15

Batch CP11184 cleaned 05/04/21: JD26114-1(M422)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.068	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.076	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.070	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.042	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.26	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.058	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.17	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.064	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.076	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.11	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.35	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.087	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.055	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.12	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.20	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.058	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.089	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.14	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.14	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.068	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.068	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1802-SCC	5W43878.D	1	05/25/21	TCH	n/a	n/a	V5W1802

The QC reported here (Summa A516) applies to the following samples:

Method: TO-15

Batch CP11184 cleaned 05/04/21: JD26114-1(M422)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	98% 65-128%

6.4.1

6

Instrument Performance Check (BFB)

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample:	V2W2318-BFB	Injection Date:	03/05/21
Lab File ID:	2W52193.D	Injection Time:	10:43
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	5496	12.9	Pass
75	30.0 - 66.0% of mass 95	17485	41.0	Pass
95	Base peak, 100% relative abundance	42651	100.0	Pass
96	5.0 - 9.0% of mass 95	2702	6.34	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	41493	97.3	Pass
175	4.0 - 9.01% of mass 174	3088	7.24 (7.44) ^a	Pass
176	93.0 - 101.0% of mass 174	39827	93.4 (96.0) ^a	Pass
177	5.0 - 9.0% of mass 176	2573	6.03 (6.46) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2318-ICC2318	2W52194.D	03/05/21	11:14	00:31	Initial cal 10
V2W2318-IC2318	2W52198.D	03/05/21	13:53	03:10	Initial cal 0.5
V2W2318-IC2318	2W52199.D	03/05/21	14:24	03:41	Initial cal 0.2
V2W2318-IC2318	2W52200.D	03/05/21	14:56	04:13	Initial cal 0.1
V2W2318-IC2318	2W52201.D	03/05/21	15:27	04:44	Initial cal 0.04
V2W2318-IC2318	2W52202.D	03/05/21	15:58	05:15	Initial cal 5
V2W2318-IC2318	2W52203.D	03/05/21	16:31	05:48	Initial cal 20
V2W2318-IC2318	2W52204.D	03/05/21	17:05	06:22	Initial cal 40
V2W2318-ICV2318	2W52206.D	03/05/21	18:07	07:24	Initial cal verification 10
V2W2319-BS	2W52207.D	03/05/21	18:40	07:57	Blank Spike
V2W2319-BSD	2W52208.D	03/05/21	19:12	08:29	Blank Spike Duplicate
V2W2319-MB	2W52210.D	03/05/21	20:17	09:34	Method Blank
JD20751-3	2W52211.D	03/05/21	20:53	10:10	(used for QC only; not part of job JD26114)
JD20751-3DUP	2W52212.D	03/05/21	21:29	10:46	Duplicate
ZZZZZZ	2W52213.D	03/05/21	22:03	11:20	(unrelated sample)
ZZZZZZ	2W52214.D	03/05/21	22:37	11:54	(unrelated sample)
ZZZZZZ	2W52215.D	03/05/21	23:13	12:30	(unrelated sample)
ZZZZZZ	2W52216.D	03/05/21	23:47	13:04	(unrelated sample)
ZZZZZZ	2W52217.D	03/06/21	00:22	13:39	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample:	V2W2391-BFB	Injection Date:	06/09/21
Lab File ID:	2W53949.D	Injection Time:	07:39
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	5151	15.4	Pass
75	30.0 - 66.0% of mass 95	14826	44.2	Pass
95	Base peak, 100% relative abundance	33517	100.0	Pass
96	5.0 - 9.0% of mass 95	2165	6.46	Pass
173	Less than 2.0% of mass 174	246	0.73 (0.75) ^a	Pass
174	50.0 - 120.0% of mass 95	32829	97.9	Pass
175	4.0 - 9.01% of mass 174	2138	6.38 (6.51) ^a	Pass
176	93.0 - 101.0% of mass 174	31981	95.4 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	1925	5.74 (6.02) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2391-CC2318	2W53950.D	06/09/21	08:22	00:43	Continuing cal 10
V2W2391-BS	2W53951.D	06/09/21	09:08	01:29	Blank Spike
V2W2391-BSD	2W53952.D	06/09/21	09:39	02:00	Blank Spike Duplicate
V2W2391-MB	2W53954.D	06/09/21	10:53	03:14	Method Blank
V2W2391-SCC	2W53955.D	06/09/21	12:48	05:09	Summa Cleaning Certification
V2W2391-SCC	2W53956.D	06/09/21	13:21	05:42	Summa Cleaning Certification
V2W2391-SCC	2W53957.D	06/09/21	13:54	06:15	Summa Cleaning Certification
JD26149-1	2W53958.D	06/09/21	14:26	06:47	(used for QC only; not part of job JD26114)
JD26149-1DUP	2W53959.D	06/09/21	14:58	07:19	Duplicate
JD26114-1	2W53960.D	06/09/21	15:28	07:49	SSDS EFFLUENT
ZZZZZZ	2W53961.D	06/09/21	16:02	08:23	(unrelated sample)
ZZZZZZ	2W53962.D	06/09/21	16:35	08:56	(unrelated sample)
ZZZZZZ	2W53963.D	06/09/21	17:10	09:31	(unrelated sample)
ZZZZZZ	2W53966.D	06/09/21	18:51	11:12	(unrelated sample)
ZZZZZZ	2W53971.D	06/09/21	21:40	14:01	(unrelated sample)
ZZZZZZ	2W53972.D	06/09/21	23:30	15:51	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample:	V5W1785-BFB	Injection Date:	04/20/21
Lab File ID:	5W43591.D	Injection Time:	14:58
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	23072	20.2	Pass
75	30.0 - 66.0% of mass 95	56001	49.0	Pass
95	Base peak, 100% relative abundance	114219	100.0	Pass
96	5.0 - 9.0% of mass 95	7555	6.61	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	81013	70.9	Pass
175	4.0 - 9.0% of mass 174	6648	5.82 (8.21) ^a	Pass
176	93.0 - 101.0% of mass 174	77592	67.9 (95.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5261	4.61 (6.78) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1785-IC1785	5W43592.D	04/20/21	15:47	00:49	Initial cal 0.04
V5W1785-IC1785	5W43593.D	04/20/21	16:35	01:37	Initial cal 0.1
V5W1785-IC1785	5W43594.D	04/20/21	17:24	02:26	Initial cal 0.2
V5W1785-IC1785	5W43595.D	04/20/21	18:14	03:16	Initial cal 0.5
V5W1785-IC1785	5W43596.D	04/20/21	19:02	04:04	Initial cal 5
V5W1785-ICC1785	5W43597.D	04/20/21	19:52	04:54	Initial cal 10
V5W1785-IC1785	5W43598.D	04/20/21	20:42	05:44	Initial cal 20
V5W1785-IC1785	5W43599.D	04/20/21	21:36	06:38	Initial cal 40
V5W1785-ICV1785	5W43603.D	04/21/21	11:17	20:19	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample:	V5W1802-BFB	Injection Date:	05/25/21
Lab File ID:	5W43867.D	Injection Time:	07:12
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	20256	14.3	Pass
75	30.0 - 66.0% of mass 95	59307	41.9	Pass
95	Base peak, 100% relative abundance	141469	100.0	Pass
96	5.0 - 9.0% of mass 95	9439	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	131152	92.7	Pass
175	4.0 - 9.0% of mass 174	9800	6.93 (7.47) ^a	Pass
176	93.0 - 101.0% of mass 174	128541	90.9 (98.0) ^a	Pass
177	5.0 - 9.0% of mass 176	8295	5.86 (6.45) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1802-CC1785	5W43868.D	05/25/21	08:01	00:49	Continuing cal 10
V5W1802-BS	5W43869.D	05/25/21	09:01	01:49	Blank Spike
V5W1802-BSD	5W43870.D	05/25/21	09:49	02:37	Blank Spike Duplicate
V5W1802-MB	5W43872.D	05/25/21	11:47	04:35	Method Blank
ZZZZZZ	5W43873.D	05/25/21	12:35	05:23	(unrelated sample)
JD25417-1	5W43874.D	05/25/21	13:46	06:34	(used for QC only; not part of job JD26114)
JD25417-1DUP	5W43875.D	05/25/21	14:40	07:28	Duplicate
ZZZZZZ	5W43876.D	05/25/21	15:34	08:22	(unrelated sample)
ZZZZZZ	5W43877.D	05/25/21	16:30	09:18	(unrelated sample)
V5W1802-SCC	5W43878.D	05/25/21	17:19	10:07	Summa Cleaning Certification
V5W1802-SCC	5W43880.D	05/25/21	19:08	11:56	Summa Cleaning Certification
ZZZZZZ	5W43881R.D	05/25/21	19:56	12:44	(unrelated sample)
ZZZZZZ	5W43881.D	05/25/21	19:56	12:44	(unrelated sample)
ZZZZZZ	5W43882.D	05/25/21	20:46	13:34	(unrelated sample)
ZZZZZZ	5W43882R.D	05/25/21	20:46	13:34	(unrelated sample)
ZZZZZZ	5W43883R.D	05/25/21	21:36	14:24	(unrelated sample)
ZZZZZZ	5W43883.D	05/25/21	21:36	14:24	(unrelated sample)
ZZZZZZ	5W43884.D	05/25/21	22:25	15:13	(unrelated sample)
ZZZZZZ	5W43884R.D	05/25/21	22:25	15:13	(unrelated sample)
ZZZZZZ	5W43885.D	05/25/21	23:15	16:03	(unrelated sample)
ZZZZZZ	5W43886.D	05/26/21	00:05	16:53	(unrelated sample)
ZZZZZZ	5W43887.D	05/26/21	00:56	17:44	(unrelated sample)
ZZZZZZ	5W43888.D	05/26/21	01:44	18:32	(unrelated sample)
ZZZZZZ	5W43889.D	05/26/21	02:35	19:23	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample:	V5W1802-BFB	Injection Date:	05/25/21
Lab File ID:	5W43867.D	Injection Time:	07:12
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
<u>ZZZZZZ</u>	5W43890.D	05/26/21	03:25	20:13	(unrelated sample)
<u>ZZZZZZ</u>	5W43891.D	05/26/21	04:15	21:03	(unrelated sample)
<u>ZZZZZZ</u>	5W43892.D	05/26/21	05:05	21:53	(unrelated sample)

6.5.4

6

Internal Standard Area Summary

Job Number: JD26114
 Account: FLSNYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Check Std:	V2W2391-CC2318	Injection Date:	06/09/21
Lab File ID:	2W53950.D	Injection Time:	08:22
Instrument ID:	GCMS2W	Method:	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	37137	3.64	188916	4.98	168781	10.70
Upper Limit ^a	51992	3.97	264482	5.31	236293	11.03
Lower Limit ^b	22282	3.31	113350	4.65	101269	10.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2391-BS	38424	3.64	194967	4.98	173860	10.69
V2W2391-BSD	38195	3.64	194019	4.98	175174	10.70
V2W2391-MB	39766	3.64	201781	4.98	178310	10.70
V2W2391-SCC	40544	3.64	204441	4.98	180623	10.70
V2W2391-SCC	39990	3.64	200189	4.98	176435	10.70
V2W2391-SCC	39168	3.64	198778	4.98	175248	10.70
JD26149-1	38951	3.64	200637	4.98	174753	10.70
JD26149-1DUP	38305	3.64	193828	4.98	171030	10.70
JD26114-1	37842	3.64	188193	4.98	167670	10.70
ZZZZZZ	37242	3.64	191582	4.98	169185	10.70
ZZZZZZ	38627	3.64	195266	4.98	172254	10.70
ZZZZZZ	37365	3.64	191986	4.98	169050	10.70
ZZZZZZ	36795	3.64	188306	4.98	166906	10.70
ZZZZZZ	36643	3.64	184646	4.98	166124	10.70
ZZZZZZ	40132	3.64	200992	4.98	172379	10.70

IS 1 = Bromochloromethane
 IS 2 = 1,4-Difluorobenzene
 IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
 (b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD26114
 Account: FLSNYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Check Std:	V5W1802-CC1785	Injection Date:	05/25/21
Lab File ID:	5W43868.D	Injection Time:	08:01
Instrument ID:	GCMS5W	Method:	TO-15

	IS 1	RT	IS 2	RT	IS 3	RT
	AREA		AREA		AREA	
Check Std	120501	11.57	430638	13.77	194411	19.03
Upper Limit ^a	168701	11.90	602893	14.10	272175	19.36
Lower Limit ^b	72301	11.24	258383	13.44	116647	18.70

Lab	IS 1	RT	IS 2	RT	IS 3	RT
Sample ID	AREA		AREA		AREA	
V5W1802-BS	118058	11.57	423495	13.76	189862	19.03
V5W1802-BSD	118818	11.57	427958	13.77	190349	19.03
V5W1802-MB	122689	11.56	446284	13.76	199328	19.03
ZZZZZZ	117859	11.57	434060	13.76	200462	19.03
JD25417-1	116955	11.57	431230	13.76	199205	19.03
JD25417-1DUP	116831	11.57	423280	13.76	196889	19.03
ZZZZZZ	118772	11.57	430334	13.76	197389	19.03
ZZZZZZ	115685	11.57	414251	13.76	192491	19.03
V5W1802-SCC	116746	11.57	423444	13.76	195756	19.03
V5W1802-SCC	120420	11.57	435398	13.76	201775	19.03
ZZZZZZ	109620	11.57	421627	13.77	194272	19.03
ZZZZZZ	109620	11.57	421627	13.77	194272	19.03
ZZZZZZ	112717	11.57	444877	13.77	195680	19.03
ZZZZZZ	112717	11.57	444877	13.77	195680	19.03
ZZZZZZ	118693	11.57	446148	13.77	199163	19.03
ZZZZZZ	118693	11.57	446148	13.77	199163	19.03
ZZZZZZ	116306	11.57	438906	13.77	198817	19.03
ZZZZZZ	116306	11.57	438906	13.77	198817	19.03
ZZZZZZ	127071	11.57	431517	13.76	201718	19.03
ZZZZZZ	116829	11.57	431344	13.76	201765	19.03
ZZZZZZ	111062	11.57	392000	13.76	193810	19.03
ZZZZZZ	110092	11.57	406439	13.76	203711	19.03
ZZZZZZ	87868	11.57	336735	13.76	173855	19.03
ZZZZZZ	81907	11.57	314455	13.76	171380	19.03
ZZZZZZ	100426	11.56	375854	13.76	187662	19.03
ZZZZZZ	88474	11.57	332656	13.76	175578	19.03

IS 1 = Bromochloromethane
 IS 2 = 1,4-Difluorobenzene
 IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
 (b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15	Reporting this level
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15	
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15	
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15	
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15	
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15	
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15	
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.62	0.674 ok	0.674	0.614-0.734
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.62	0.649 ok	0.649	0.589-0.709
1,3-Butadiene	2.07	3.62	0.572 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.44	10.69	1.351 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromoform	11.91	10.69	1.114 ok	1.114	1.054-1.174
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.09	3.62	0.577 ok	0.579	0.519-0.639
Benzyl Chloride	16.90	10.69	1.581 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.69	1.646 ok	1.646	1.586-1.706
sec-Butylbenzene	17.08	10.69	1.598 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.69	1.572 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.62	0.785 ok	0.784	0.724-0.844
Chlorobenzene	10.77	10.69	1.007 ok	1.008	0.948-1.068
Chlorodifluoromethane	1.85	3.62	0.511 ok	0.513	0.453-0.573
Chloroethane	2.23	3.62	0.616 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.62	0.517 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
Chloromethane	1.95	3.62	0.539 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.58	10.69	1.457 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.62	1.312 ok	1.311	1.251-1.371
Cyclohexane	4.85	4.97	0.976 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.68	4.97	1.746 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.13	3.62	1.141 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.33	4.97	1.072 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.84	4.97	1.577 ok	1.576	1.516-1.636
1,4-Dioxane	5.57	4.97	1.121 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.26	3.62	0.624 ok	0.625	0.565-0.685
Dibromochloromethane	8.33	4.97	1.676 ok	1.675	1.615-1.735
Dibromomethane	5.28	4.97	1.062 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.62	0.851 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.54	3.62	0.978 ok	0.978	0.918-1.038

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15	Reporting this level
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15	
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15	
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15	
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15	
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15	
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15	
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	6.53	4.97	1.314 ok	1.315	1.255-1.375
m-Dichlorobenzene	16.88	10.69	1.579 ok	1.578	1.518-1.638
o-Dichlorobenzene	17.25	10.69	1.614 ok	1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587 ok	1.586	1.526-1.646
trans-1,3-Dichloropropene	7.24	4.97	1.457 ok	1.456	1.396-1.516
Di-Isopropyl ether	3.68	3.62	1.017 ok	1.018	0.958-1.078
2,3-Dimethylpentane	5.12	4.97	1.030 ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.22	3.62	1.166 ok	1.166	1.106-1.226
Ethanol	2.27	3.62	0.627 ok	0.627	0.567-0.687
Ethylbenzene	11.66	10.69	1.091 ok	1.091	1.031-1.151
Ethyl Acetate	3.69	3.62	1.019 ok	1.019	0.959-1.079
Ethyl Acrylate	5.44	4.97	1.095 ok	1.096	1.036-1.156
4-Ethyltoluene	16.23	10.69	1.518 ok	1.518	1.458-1.578
Freon 113	2.84	3.62	0.785 ok	0.783	0.723-0.843
Freon 114	1.98	3.62	0.547 ok	0.548	0.488-0.608
Freon 123	2.42	3.62	0.669 ok	0.668	0.608-0.728
Freon 123A	2.43	3.62	0.671 ok	0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536 ok	0.536	0.476-0.596
Freon 152A	1.84	3.62	0.508 ok	0.508	0.448-0.568
Heptane	5.99	4.97	1.205 ok	1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.69	1.760 ok	1.760	1.700-1.820
Hexachloroethane	17.78	10.69	1.663 ok	1.663	1.603-1.723
Hexane	3.68	3.62	1.017 ok	1.016	0.956-1.076
2-Hexanone	8.34	4.97	1.678 ok	1.680	1.620-1.740
Iodomethane	2.68	3.62	0.740 ok	0.739	0.679-0.799
Isopropylbenzene	14.56	10.69	1.362 ok	1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.62	0.696 ok	0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615 ok	1.614	1.554-1.674
Methylene chloride	2.74	3.62	0.757 ok	0.756	0.696-0.816
Methyl ethyl ketone	3.33	3.62	0.920 ok	0.921	0.861-0.981
Methyl Isobutyl Ketone	6.63	4.97	1.334 ok	1.336	1.276-1.396
Methyl Tert Butyl Ether	3.19	3.62	0.881 ok	0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183 ok	1.183	1.123-1.243
Naphthalene	18.55	10.69	1.735 ok	1.735	1.675-1.795
Nonane	14.15	10.69	1.324 ok	1.324	1.264-1.384
Octane	9.69	4.97	1.950 ok	1.949	1.889-2.009
Pentane	2.62	3.62	0.724 ok	0.723	0.663-0.783
n-Propylbenzene	15.91	10.69	1.488 ok	1.488	1.428-1.548
Propylene	1.87	3.62	0.517 ok	0.516	0.456-0.576
Styrene	12.83	10.69	1.200 ok	1.199	1.139-1.259

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15	Reporting this level
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15	
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15	
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15	
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15	
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15	
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15	
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	4.31	3.62	1.191 ok	1.189	1.129-1.249
1,1,1,2-Tetrachloroethane	10.78	10.69	1.008 ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.69	1.221 ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.40	4.97	1.489 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.50	10.69	1.731 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.33	10.69	1.247 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.19	10.69	1.608 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.82	10.69	1.573 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.69	1.531 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.67	4.97	1.141 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.55	4.97	1.922 ok	1.921	1.861-1.981
Tetrahydrofuran	3.92	3.62	1.083 ok	1.085	1.025-1.145
Toluene	7.78	4.97	1.565 ok	1.565	1.505-1.625
Trichloroethylene	5.57	4.97	1.121 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.50	3.62	0.691 ok	0.692	0.632-0.752
Vinyl chloride	2.03	3.62	0.561 ok	0.560	0.500-0.620
Vinyl Acetate	3.23	3.62	0.892 ok	0.893	0.833-0.953
m,p-Xylene	12.10	10.69	1.132 ok	1.131	1.071-1.191
o-Xylene	13.04	10.69	1.220 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	46763 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	237709 ok	244786	146872-342700
Chlorobenzene-D5	10.69 ok	10.69	10.36-11.02	212044 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.62	0.674 ok	0.674	0.614-0.734
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.62	0.649 ok	0.649	0.589-0.709
1,3-Butadiene	2.07	3.62	0.572 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.43	10.69	1.350 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromoform	11.90	10.69	1.113 ok	1.114	1.054-1.174
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.10	3.62	0.580 ok	0.579	0.519-0.639
Benzyl Chloride	16.89	10.69	1.580 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.69	1.646 ok	1.646	1.586-1.706
sec-Butylbenzene	17.08	10.69	1.598 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.69	1.572 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.62	0.785 ok	0.784	0.724-0.844
Chlorobenzene	10.76	10.69	1.007 ok	1.008	0.948-1.068
Chlorodifluoromethane	1.86	3.62	0.514 ok	0.513	0.453-0.573
Chloroethane	2.24	3.62	0.619 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.62	0.517 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
Chloromethane	1.94	3.62	0.536 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.57	10.69	1.457 ok	1.457	1.397-1.517
Carbon tetrachloride	4.74	3.62	1.309 ok	1.311	1.251-1.371
Cyclohexane	4.84	4.97	0.974 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.67	4.97	1.744 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.13	3.62	1.141 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.32	4.97	1.070 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.83	4.97	1.575 ok	1.576	1.516-1.636
1,4-Dioxane	5.59	4.97	1.125 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.26	3.62	0.624 ok	0.625	0.565-0.685
Dibromochloromethane	8.32	4.97	1.674 ok	1.675	1.615-1.735
Dibromomethane	5.28	4.97	1.062 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.07	3.62	0.848 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.54	3.62	0.978 ok	0.978	0.918-1.038

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	6.53	4.97	1.314 ok	1.315	1.255-1.375
m-Dichlorobenzene	16.87	10.69	1.578 ok	1.578	1.518-1.638
o-Dichlorobenzene	17.24	10.69	1.613 ok	1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587 ok	1.586	1.526-1.646
trans-1,3-Dichloropropene	7.23	4.97	1.455 ok	1.456	1.396-1.516
Di-Isopropyl ether	3.68	3.62	1.017 ok	1.018	0.958-1.078
2,3-Dimethylpentane	5.12	4.97	1.030 ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.22	3.62	1.166 ok	1.166	1.106-1.226
Ethanol	2.27	3.62	0.627 ok	0.627	0.567-0.687
Ethylbenzene	11.66	10.69	1.091 ok	1.091	1.031-1.151
Ethyl Acetate	3.69	3.62	1.019 ok	1.019	0.959-1.079
Ethyl Acrylate	5.44	4.97	1.095 ok	1.096	1.036-1.156
4-Ethyltoluene	16.22	10.69	1.517 ok	1.518	1.458-1.578
Freon 113	2.83	3.62	0.782 ok	0.783	0.723-0.843
Freon 114	1.98	3.62	0.547 ok	0.548	0.488-0.608
Freon 123	2.42	3.62	0.669 ok	0.668	0.608-0.728
Freon 123A	2.43	3.62	0.671 ok	0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536 ok	0.536	0.476-0.596
Freon 152A	1.84	3.62	0.508 ok	0.508	0.448-0.568
Heptane	5.99	4.97	1.205 ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.69	1.761 ok	1.760	1.700-1.820
Hexachloroethane	17.78	10.69	1.663 ok	1.663	1.603-1.723
Hexane	3.68	3.62	1.017 ok	1.016	0.956-1.076
2-Hexanone	8.34	4.97	1.678 ok	1.680	1.620-1.740
Iodomethane	2.68	3.62	0.740 ok	0.739	0.679-0.799
Isopropylbenzene	14.55	10.69	1.361 ok	1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.62	0.696 ok	0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615 ok	1.614	1.554-1.674
Methylene chloride	2.74	3.62	0.757 ok	0.756	0.696-0.816
Methyl ethyl ketone	3.34	3.62	0.923 ok	0.921	0.861-0.981
Methyl Isobutyl Ketone	6.64	4.97	1.336 ok	1.336	1.276-1.396
Methyl Tert Butyl Ether	3.19	3.62	0.881 ok	0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183 ok	1.183	1.123-1.243
Naphthalene	18.56	10.69	1.736 ok	1.735	1.675-1.795
Nonane	14.15	10.69	1.324 ok	1.324	1.264-1.384
Octane	9.68	4.97	1.948 ok	1.949	1.889-2.009
Pentane	2.61	3.62	0.721 ok	0.723	0.663-0.783
n-Propylbenzene	15.91	10.69	1.488 ok	1.488	1.428-1.548
Propylene	1.87	3.62	0.517 ok	0.516	0.456-0.576
Styrene	12.82	10.69	1.199 ok	1.199	1.139-1.259

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	4.30	3.62	1.188 ok	1.189	1.129-1.249
1,1,1,2-Tetrachloroethane	10.77	10.69	1.007 ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.04	10.69	1.220 ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.39	4.97	1.487 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.51	10.69	1.732 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.33	10.69	1.247 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.19	10.69	1.608 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.81	10.69	1.572 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.69	1.531 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.66	4.97	1.139 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.53	4.97	1.918 ok	1.921	1.861-1.981
Tetrahydrofuran	3.93	3.62	1.086 ok	1.085	1.025-1.145
Toluene	7.77	4.97	1.563 ok	1.565	1.505-1.625
Trichloroethylene	5.56	4.97	1.119 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.50	3.62	0.691 ok	0.692	0.632-0.752
Vinyl chloride	2.02	3.62	0.558 ok	0.560	0.500-0.620
Vinyl Acetate	3.23	3.62	0.892 ok	0.893	0.833-0.953
m,p-Xylene	12.06	10.69	1.128 ok	1.131	1.071-1.191
o-Xylene	13.03	10.69	1.219 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	47591 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	242278 ok	244786	146872-342700
Chlorobenzene-D5	10.69 ok	10.69	10.36-11.02	220599 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.62	0.674 ok	0.674	0.614-0.734
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.36	3.62	0.652 ok	0.649	0.589-0.709
1,3-Butadiene	2.08	3.62	0.575 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.44	10.69	1.351 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromoform	11.90	10.69	1.113 ok	1.114	1.054-1.174
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.10	3.62	0.580 ok	0.579	0.519-0.639
Benzyl Chloride	16.90	10.69	1.581 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.69	1.646 ok	1.646	1.586-1.706
sec-Butylbenzene	17.08	10.69	1.598 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.69	1.572 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.62	0.785 ok	0.784	0.724-0.844
Chlorobenzene	10.78	10.69	1.008 ok	1.008	0.948-1.068
Chlorodifluoromethane	1.86	3.62	0.514 ok	0.513	0.453-0.573
Chloroethane	2.24	3.62	0.619 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.62	0.517 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
Chloromethane	1.95	3.62	0.539 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.58	10.69	1.457 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.62	1.312 ok	1.311	1.251-1.371
Cyclohexane	4.84	4.97	0.974 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.68	4.97	1.746 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.13	3.62	1.141 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.33	4.97	1.072 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.83	4.97	1.575 ok	1.576	1.516-1.636
1,4-Dioxane	5.61	4.97	1.129 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.27	3.62	0.627 ok	0.625	0.565-0.685
Dibromochloromethane	8.33	4.97	1.676 ok	1.675	1.615-1.735
Dibromomethane	5.28	4.97	1.062 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.62	0.851 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.54	3.62	0.978 ok	0.978	0.918-1.038

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	6.53	4.97	1.314 ok	1.315	1.255-1.375
m-Dichlorobenzene	16.87	10.69	1.578 ok	1.578	1.518-1.638
o-Dichlorobenzene	17.24	10.69	1.613 ok	1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587 ok	1.586	1.526-1.646
trans-1,3-Dichloropropene	7.24	4.97	1.457 ok	1.456	1.396-1.516
Di-Isopropyl ether	3.69	3.62	1.019 ok	1.018	0.958-1.078
2,3-Dimethylpentane	5.11	4.97	1.028 ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.22	3.62	1.166 ok	1.166	1.106-1.226
Ethylbenzene	11.66	10.69	1.091 ok	1.091	1.031-1.151
Ethyl Acetate	3.70	3.62	1.022 ok	1.019	0.959-1.079
Ethyl Acrylate	5.45	4.97	1.097 ok	1.096	1.036-1.156
4-Ethyltoluene	16.23	10.69	1.518 ok	1.518	1.458-1.578
Freon 113	2.84	3.62	0.785 ok	0.783	0.723-0.843
Freon 114	1.99	3.62	0.550 ok	0.548	0.488-0.608
Freon 123	2.42	3.62	0.669 ok	0.668	0.608-0.728
Freon 123A	2.44	3.62	0.674 ok	0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536 ok	0.536	0.476-0.596
Freon 152A	1.84	3.62	0.508 ok	0.508	0.448-0.568
Heptane	5.99	4.97	1.205 ok	1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.69	1.760 ok	1.760	1.700-1.820
Hexachloroethane	17.77	10.69	1.662 ok	1.663	1.603-1.723
Hexane	3.68	3.62	1.017 ok	1.016	0.956-1.076
2-Hexanone	8.36	4.97	1.682 ok	1.680	1.620-1.740
Iodomethane	2.67	3.62	0.738 ok	0.739	0.679-0.799
Isopropylbenzene	14.57	10.69	1.363 ok	1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.62	0.696 ok	0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615 ok	1.614	1.554-1.674
Methylene chloride	2.74	3.62	0.757 ok	0.756	0.696-0.816
Methyl ethyl ketone	3.34	3.62	0.923 ok	0.921	0.861-0.981
Methyl Isobutyl Ketone	6.64	4.97	1.336 ok	1.336	1.276-1.396
Methyl Tert Butyl Ether	3.20	3.62	0.884 ok	0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183 ok	1.183	1.123-1.243
Naphthalene	18.55	10.69	1.735 ok	1.735	1.675-1.795
Nonane	14.15	10.69	1.324 ok	1.324	1.264-1.384
Octane	9.68	4.97	1.948 ok	1.949	1.889-2.009
Pentane	2.62	3.62	0.724 ok	0.723	0.663-0.783
n-Propylbenzene	15.91	10.69	1.488 ok	1.488	1.428-1.548
Propylene	1.87	3.62	0.517 ok	0.516	0.456-0.576
Styrene	12.82	10.69	1.199 ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.30	3.62	1.188 ok	1.189	1.129-1.249

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1,2-Tetrachloroethane	10.78	10.69	1.008 ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.04	10.69	1.220 ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.39	4.97	1.487 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.50	10.69	1.731 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.33	10.69	1.247 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.19	10.69	1.608 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.82	10.69	1.573 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.69	1.531 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.66	4.97	1.139 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.55	4.97	1.922 ok	1.921	1.861-1.981
Tetrahydrofuran	3.94	3.62	1.088 ok	1.085	1.025-1.145
Toluene	7.78	4.97	1.565 ok	1.565	1.505-1.625
Trichloroethylene	5.57	4.97	1.121 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.51	3.62	0.693 ok	0.692	0.632-0.752
Vinyl chloride	2.03	3.62	0.561 ok	0.560	0.500-0.620
Vinyl Acetate	3.24	3.62	0.895 ok	0.893	0.833-0.953
m,p-Xylene	12.09	10.69	1.131 ok	1.131	1.071-1.191
o-Xylene	13.05	10.69	1.221 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	46716 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	241987 ok	244786	146872-342700
Chlorobenzene-D5	10.69 ok	10.69	10.36-11.02	215813 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.62	0.674 ok	0.674	0.614-0.734
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.62	0.649 ok	0.649	0.589-0.709
1,3-Butadiene	2.07	3.62	0.572 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.43	10.69	1.350 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromoform	11.91	10.69	1.114 ok	1.114	1.054-1.174
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.09	3.62	0.577 ok	0.579	0.519-0.639
Benzyl Chloride	16.90	10.69	1.581 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.69	1.646 ok	1.646	1.586-1.706
sec-Butylbenzene	17.08	10.69	1.598 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.69	1.572 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.62	0.785 ok	0.784	0.724-0.844
Chlorobenzene	10.78	10.69	1.008 ok	1.008	0.948-1.068
Chloroethane	2.24	3.62	0.619 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.62	0.517 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
Chloromethane	1.95	3.62	0.539 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.57	10.69	1.457 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.62	1.312 ok	1.311	1.251-1.371
Cyclohexane	4.85	4.97	0.976 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.68	4.97	1.746 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.13	3.62	1.141 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.33	4.97	1.072 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.83	4.97	1.575 ok	1.576	1.516-1.636
1,4-Dioxane	5.62	4.97	1.131 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.26	3.62	0.624 ok	0.625	0.565-0.685
Dibromochloromethane	8.31	4.97	1.672 ok	1.675	1.615-1.735
Dibromomethane	5.28	4.97	1.062 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.62	0.851 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.55	3.62	0.981 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.54	4.97	1.316 ok	1.315	1.255-1.375

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
m-Dichlorobenzene	16.87	10.69	1.578	ok 1.578	1.518-1.638
o-Dichlorobenzene	17.24	10.69	1.613	ok 1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587	ok 1.586	1.526-1.646
trans-1,3-Dichloropropene	7.24	4.97	1.457	ok 1.456	1.396-1.516
Di-Isopropyl ether	3.69	3.62	1.019	ok 1.018	0.958-1.078
2,3-Dimethylpentane	5.11	4.97	1.028	ok 1.030	0.970-1.090
2,4-Dimethylpentane	4.22	3.62	1.166	ok 1.166	1.106-1.226
Ethylbenzene	11.66	10.69	1.091	ok 1.091	1.031-1.151
Ethyl Acetate	3.69	3.62	1.019	ok 1.019	0.959-1.079
Ethyl Acrylate	5.45	4.97	1.097	ok 1.096	1.036-1.156
4-Ethyltoluene	16.23	10.69	1.518	ok 1.518	1.458-1.578
Freon 113	2.83	3.62	0.782	ok 0.783	0.723-0.843
Freon 114	1.98	3.62	0.547	ok 0.548	0.488-0.608
Freon 123	2.41	3.62	0.666	ok 0.668	0.608-0.728
Freon 123A	2.43	3.62	0.671	ok 0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536	ok 0.536	0.476-0.596
Freon 152A	1.83	3.62	0.506	ok 0.508	0.448-0.568
Heptane	5.99	4.97	1.205	ok 1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.69	1.760	ok 1.760	1.700-1.820
Hexachloroethane	17.78	10.69	1.663	ok 1.663	1.603-1.723
Hexane	3.67	3.62	1.014	ok 1.016	0.956-1.076
2-Hexanone	8.35	4.97	1.680	ok 1.680	1.620-1.740
Iodomethane	2.67	3.62	0.738	ok 0.739	0.679-0.799
Isopropylbenzene	14.56	10.69	1.362	ok 1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.62	0.696	ok 0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615	ok 1.614	1.554-1.674
Methylene chloride	2.73	3.62	0.754	ok 0.756	0.696-0.816
Methyl ethyl ketone	3.34	3.62	0.923	ok 0.921	0.861-0.981
Methyl Isobutyl Ketone	6.64	4.97	1.336	ok 1.336	1.276-1.396
Methyl Tert Butyl Ether	3.20	3.62	0.884	ok 0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183	ok 1.183	1.123-1.243
Naphthalene	18.55	10.69	1.735	ok 1.735	1.675-1.795
Nonane	14.14	10.69	1.323	ok 1.324	1.264-1.384
Octane	9.68	4.97	1.948	ok 1.949	1.889-2.009
Pentane	2.62	3.62	0.724	ok 0.723	0.663-0.783
n-Propylbenzene	15.91	10.69	1.488	ok 1.488	1.428-1.548
Propylene	1.87	3.62	0.517	ok 0.516	0.456-0.576
Styrene	12.82	10.69	1.199	ok 1.199	1.139-1.259
1,1,1-Trichloroethane	4.30	3.62	1.188	ok 1.189	1.129-1.249
1,1,1,2-Tetrachloroethane	10.78	10.69	1.008	ok 1.008	0.948-1.068

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,2,2-Tetrachloroethane	13.05	10.69	1.221 ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.39	4.97	1.487 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.50	10.69	1.731 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.34	10.69	1.248 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.19	10.69	1.608 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.81	10.69	1.572 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.69	1.531 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.67	4.97	1.141 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.55	4.97	1.922 ok	1.921	1.861-1.981
Tetrahydrofuran	3.95	3.62	1.091 ok	1.085	1.025-1.145
Toluene	7.78	4.97	1.565 ok	1.565	1.505-1.625
Trichloroethylene	5.57	4.97	1.121 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.50	3.62	0.691 ok	0.692	0.632-0.752
Vinyl chloride	2.02	3.62	0.558 ok	0.560	0.500-0.620
Vinyl Acetate	3.23	3.62	0.892 ok	0.893	0.833-0.953
m,p-Xylene	12.09	10.69	1.131 ok	1.131	1.071-1.191
o-Xylene	13.04	10.69	1.220 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	47748 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	244187 ok	244786	146872-342700
Chlorobenzene-D5	10.69 ok	10.69	10.36-11.02	216911 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.62	0.649 ok	0.649	0.589-0.709
1,3-Butadiene	2.08	3.62	0.575 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.44	10.69	1.351 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.10	3.62	0.580 ok	0.579	0.519-0.639
Benzyl Chloride	16.90	10.69	1.581 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.69	1.646 ok	1.646	1.586-1.706
sec-Butylbenzene	17.09	10.69	1.599 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.69	1.572 ok	1.572	1.512-1.632
Carbon disulfide	2.83	3.62	0.782 ok	0.784	0.724-0.844
Chlorobenzene	10.77	10.69	1.007 ok	1.008	0.948-1.068
Chloroethane	2.24	3.62	0.619 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.88	3.62	0.519 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.58	10.69	1.457 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.62	1.312 ok	1.311	1.251-1.371
Cyclohexane	4.85	4.97	0.976 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.67	4.97	1.744 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.13	3.62	1.141 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.33	4.97	1.072 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.83	4.97	1.575 ok	1.576	1.516-1.636
1,4-Dioxane	5.63	4.97	1.133 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.27	3.62	0.627 ok	0.625	0.565-0.685
Dibromochloromethane	8.32	4.97	1.674 ok	1.675	1.615-1.735
Dibromomethane	5.28	4.97	1.062 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.62	0.851 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.54	3.62	0.978 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.54	4.97	1.316 ok	1.315	1.255-1.375
m-Dichlorobenzene	16.87	10.69	1.578 ok	1.578	1.518-1.638
o-Dichlorobenzene	17.25	10.69	1.614 ok	1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587 ok	1.586	1.526-1.646

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Di-Isopropyl ether	3.69	3.62	1.019 ok	1.018	0.958-1.078
2,3-Dimethylpentane	5.12	4.97	1.030 ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.23	3.62	1.169 ok	1.166	1.106-1.226
Ethylbenzene	11.65	10.69	1.090 ok	1.091	1.031-1.151
Ethyl Acrylate	5.45	4.97	1.097 ok	1.096	1.036-1.156
4-Ethyltoluene	16.23	10.69	1.518 ok	1.518	1.458-1.578
Freon 113	2.84	3.62	0.785 ok	0.783	0.723-0.843
Freon 114	1.98	3.62	0.547 ok	0.548	0.488-0.608
Freon 123	2.42	3.62	0.669 ok	0.668	0.608-0.728
Freon 123A	2.43	3.62	0.671 ok	0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536 ok	0.536	0.476-0.596
Heptane	5.99	4.97	1.205 ok	1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.69	1.760 ok	1.760	1.700-1.820
Hexachloroethane	17.78	10.69	1.663 ok	1.663	1.603-1.723
Hexane	3.68	3.62	1.017 ok	1.016	0.956-1.076
Iodomethane	2.68	3.62	0.740 ok	0.739	0.679-0.799
Isopropyl Alcohol	2.52	3.62	0.696 ok	0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615 ok	1.614	1.554-1.674
Methyl ethyl ketone	3.34	3.62	0.923 ok	0.921	0.861-0.981
Methyl Isobutyl Ketone	6.66	4.97	1.340 ok	1.336	1.276-1.396
Methyl Tert Butyl Ether	3.19	3.62	0.881 ok	0.882	0.822-0.942
Naphthalene	18.55	10.69	1.735 ok	1.735	1.675-1.795
Nonane	14.15	10.69	1.324 ok	1.324	1.264-1.384
Octane	9.68	4.97	1.948 ok	1.949	1.889-2.009
Pentane	2.62	3.62	0.724 ok	0.723	0.663-0.783
n-Propylbenzene	15.91	10.69	1.488 ok	1.488	1.428-1.548
Propylene	1.87	3.62	0.517 ok	0.516	0.456-0.576
1,1,1-Trichloroethane	4.31	3.62	1.191 ok	1.189	1.129-1.249
1,1,2-Trichloroethane	7.40	4.97	1.489 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.50	10.69	1.731 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.33	10.69	1.247 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.19	10.69	1.608 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.81	10.69	1.572 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.69	1.531 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.66	4.97	1.139 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.54	4.97	1.920 ok	1.921	1.861-1.981
Toluene	7.78	4.97	1.565 ok	1.565	1.505-1.625
Trichloroethylene	5.56	4.97	1.119 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.51	3.62	0.693 ok	0.692	0.632-0.752

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Vinyl chloride	2.03	3.62	0.561 ok	0.560	0.500-0.620
m,p-Xylene	12.06	10.69	1.128 ok	1.131	1.071-1.191
o-Xylene	13.03	10.69	1.219 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	48476 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	244988 ok	244786	146872-342700
Chlorobenzene-D5	10.69 ok	10.69	10.36-11.02	218424 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.62	0.674 ok	0.674	0.614-0.734
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.62	0.649 ok	0.649	0.589-0.709
1,3-Butadiene	2.07	3.62	0.572 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.43	10.69	1.350 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromoform	11.91	10.69	1.114 ok	1.114	1.054-1.174
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.09	3.62	0.577 ok	0.579	0.519-0.639
Benzyl Chloride	16.90	10.69	1.581 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.69	1.646 ok	1.646	1.586-1.706
sec-Butylbenzene	17.08	10.69	1.598 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.69	1.572 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.62	0.785 ok	0.784	0.724-0.844
Chlorobenzene	10.77	10.69	1.007 ok	1.008	0.948-1.068
Chlorodifluoromethane	1.85	3.62	0.511 ok	0.513	0.453-0.573
Chloroethane	2.23	3.62	0.616 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.62	0.517 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
Chloromethane	1.95	3.62	0.539 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.58	10.69	1.457 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.62	1.312 ok	1.311	1.251-1.371
Cyclohexane	4.85	4.97	0.976 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.68	4.97	1.746 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.13	3.62	1.141 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.32	4.97	1.070 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.83	4.97	1.575 ok	1.576	1.516-1.636
1,4-Dioxane	5.57	4.97	1.121 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.26	3.62	0.624 ok	0.625	0.565-0.685
Dibromochloromethane	8.33	4.97	1.676 ok	1.675	1.615-1.735
Dibromomethane	5.28	4.97	1.062 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.62	0.851 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.54	3.62	0.978 ok	0.978	0.918-1.038

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	6.54	4.97	1.316 ok	1.315	1.255-1.375
m-Dichlorobenzene	16.87	10.69	1.578 ok	1.578	1.518-1.638
o-Dichlorobenzene	17.25	10.69	1.614 ok	1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587 ok	1.586	1.526-1.646
trans-1,3-Dichloropropene	7.23	4.97	1.455 ok	1.456	1.396-1.516
Di-Isopropyl ether	3.68	3.62	1.017 ok	1.018	0.958-1.078
2,3-Dimethylpentane	5.12	4.97	1.030 ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.22	3.62	1.166 ok	1.166	1.106-1.226
Ethanol	2.27	3.62	0.627 ok	0.627	0.567-0.687
Ethylbenzene	11.66	10.69	1.091 ok	1.091	1.031-1.151
Ethyl Acetate	3.68	3.62	1.017 ok	1.019	0.959-1.079
Ethyl Acrylate	5.44	4.97	1.095 ok	1.096	1.036-1.156
4-Ethyltoluene	16.23	10.69	1.518 ok	1.518	1.458-1.578
Freon 113	2.83	3.62	0.782 ok	0.783	0.723-0.843
Freon 114	1.98	3.62	0.547 ok	0.548	0.488-0.608
Freon 123	2.41	3.62	0.666 ok	0.668	0.608-0.728
Freon 123A	2.43	3.62	0.671 ok	0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536 ok	0.536	0.476-0.596
Freon 152A	1.84	3.62	0.508 ok	0.508	0.448-0.568
Heptane	5.99	4.97	1.205 ok	1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.69	1.760 ok	1.760	1.700-1.820
Hexachloroethane	17.78	10.69	1.663 ok	1.663	1.603-1.723
Hexane	3.68	3.62	1.017 ok	1.016	0.956-1.076
2-Hexanone	8.34	4.97	1.678 ok	1.680	1.620-1.740
Iodomethane	2.67	3.62	0.738 ok	0.739	0.679-0.799
Isopropylbenzene	14.56	10.69	1.362 ok	1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.62	0.696 ok	0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615 ok	1.614	1.554-1.674
Methylene chloride	2.74	3.62	0.757 ok	0.756	0.696-0.816
Methyl ethyl ketone	3.33	3.62	0.920 ok	0.921	0.861-0.981
Methyl Isobutyl Ketone	6.63	4.97	1.334 ok	1.336	1.276-1.396
Methyl Tert Butyl Ether	3.19	3.62	0.881 ok	0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183 ok	1.183	1.123-1.243
Naphthalene	18.55	10.69	1.735 ok	1.735	1.675-1.795
Nonane	14.15	10.69	1.324 ok	1.324	1.264-1.384
Octane	9.69	4.97	1.950 ok	1.949	1.889-2.009
Pentane	2.61	3.62	0.721 ok	0.723	0.663-0.783
n-Propylbenzene	15.92	10.69	1.489 ok	1.488	1.428-1.548
Propylene	1.87	3.62	0.517 ok	0.516	0.456-0.576
Styrene	12.82	10.69	1.199 ok	1.199	1.139-1.259

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	4.30	3.62	1.188 ok	1.189	1.129-1.249
1,1,1,2-Tetrachloroethane	10.78	10.69	1.008 ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.04	10.69	1.220 ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.40	4.97	1.489 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.50	10.69	1.731 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.33	10.69	1.247 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.19	10.69	1.608 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.82	10.69	1.573 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.69	1.531 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.66	4.97	1.139 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.55	4.97	1.922 ok	1.921	1.861-1.981
Tetrahydrofuran	3.92	3.62	1.083 ok	1.085	1.025-1.145
Toluene	7.78	4.97	1.565 ok	1.565	1.505-1.625
Trichloroethylene	5.57	4.97	1.121 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.50	3.62	0.691 ok	0.692	0.632-0.752
Vinyl chloride	2.02	3.62	0.558 ok	0.560	0.500-0.620
Vinyl Acetate	3.23	3.62	0.892 ok	0.893	0.833-0.953
m,p-Xylene	12.10	10.69	1.132 ok	1.131	1.071-1.191
o-Xylene	13.04	10.69	1.220 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	47784 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	242616 ok	244786	146872-342700
Chlorobenzene-D5	10.69 ok	10.69	10.36-11.02	215879 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.62	0.674 ok	0.674	0.614-0.734
Acrolein	2.40	3.62	0.663 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.62	0.715 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.62	0.649 ok	0.649	0.589-0.709
1,3-Butadiene	2.08	3.62	0.575 ok	0.573	0.513-0.633
Benzene	4.63	3.62	1.279 ok	1.279	1.219-1.339
Bromobenzene	14.44	10.70	1.350 ok	1.350	1.290-1.410
Bromodichloromethane	5.51	4.97	1.109 ok	1.109	1.049-1.169
Bromoform	11.92	10.70	1.114 ok	1.114	1.054-1.174
Bromomethane	2.17	3.62	0.599 ok	0.600	0.540-0.660
Bromoethene	2.36	3.62	0.652 ok	0.652	0.592-0.712
n-Butane	2.10	3.62	0.580 ok	0.579	0.519-0.639
Benzyl Chloride	16.90	10.70	1.579 ok	1.581	1.521-1.641
n-Butylbenzene	17.60	10.70	1.645 ok	1.646	1.586-1.706
sec-Butylbenzene	17.09	10.70	1.597 ok	1.598	1.538-1.658
tert-Butylbenzene	16.81	10.70	1.571 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.62	0.785 ok	0.784	0.724-0.844
Chlorobenzene	10.78	10.70	1.007 ok	1.008	0.948-1.068
Chlorodifluoromethane	1.86	3.62	0.514 ok	0.513	0.453-0.573
Chloroethane	2.24	3.62	0.619 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.62	0.517 ok	0.517	0.457-0.577
Chloroform	3.70	3.62	1.022 ok	1.022	0.962-1.082
Chloromethane	1.95	3.62	0.539 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.62	0.768 ok	0.768	0.708-0.828
2-Chlorotoluene	15.58	10.70	1.456 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.62	1.312 ok	1.311	1.251-1.371
Cyclohexane	4.85	4.97	0.976 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.62	0.873 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.62	0.746 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.68	4.97	1.746 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.14	3.62	1.144 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.33	4.97	1.072 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.84	4.97	1.577 ok	1.576	1.516-1.636
1,4-Dioxane	5.57	4.97	1.121 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.62	0.522 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.27	3.62	0.627 ok	0.625	0.565-0.685
Dibromochloromethane	8.33	4.97	1.676 ok	1.675	1.615-1.735
Dibromomethane	5.29	4.97	1.064 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.62	0.851 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.54	3.62	0.978 ok	0.978	0.918-1.038

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	6.54	4.97	1.316	ok 1.315	1.255-1.375
m-Dichlorobenzene	16.88	10.70	1.578	ok 1.578	1.518-1.638
o-Dichlorobenzene	17.25	10.70	1.612	ok 1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.70	1.585	ok 1.586	1.526-1.646
trans-1,3-Dichloropropene	7.24	4.97	1.457	ok 1.456	1.396-1.516
Di-Isopropyl ether	3.69	3.62	1.019	ok 1.018	0.958-1.078
2,3-Dimethylpentane	5.12	4.97	1.030	ok 1.030	0.970-1.090
2,4-Dimethylpentane	4.22	3.62	1.166	ok 1.166	1.106-1.226
Ethanol	2.27	3.62	0.627	ok 0.627	0.567-0.687
Ethylbenzene	11.67	10.70	1.091	ok 1.091	1.031-1.151
Ethyl Acetate	3.69	3.62	1.019	ok 1.019	0.959-1.079
Ethyl Acrylate	5.44	4.97	1.095	ok 1.096	1.036-1.156
4-Ethyltoluene	16.23	10.70	1.517	ok 1.518	1.458-1.578
Freon 113	2.84	3.62	0.785	ok 0.783	0.723-0.843
Freon 114	1.99	3.62	0.550	ok 0.548	0.488-0.608
Freon 123	2.42	3.62	0.669	ok 0.668	0.608-0.728
Freon 123A	2.44	3.62	0.674	ok 0.672	0.612-0.732
Freon 142B	1.94	3.62	0.536	ok 0.536	0.476-0.596
Freon 152A	1.84	3.62	0.508	ok 0.508	0.448-0.568
Heptane	6.00	4.97	1.207	ok 1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.70	1.758	ok 1.760	1.700-1.820
Hexachloroethane	17.78	10.70	1.662	ok 1.663	1.603-1.723
Hexane	3.68	3.62	1.017	ok 1.016	0.956-1.076
2-Hexanone	8.35	4.97	1.680	ok 1.680	1.620-1.740
Iodomethane	2.68	3.62	0.740	ok 0.739	0.679-0.799
Isopropylbenzene	14.57	10.70	1.362	ok 1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.62	0.696	ok 0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.70	1.613	ok 1.614	1.554-1.674
Methylene chloride	2.74	3.62	0.757	ok 0.756	0.696-0.816
Methyl ethyl ketone	3.33	3.62	0.920	ok 0.921	0.861-0.981
Methyl Isobutyl Ketone	6.63	4.97	1.334	ok 1.336	1.276-1.396
Methyl Tert Butyl Ether	3.19	3.62	0.881	ok 0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183	ok 1.183	1.123-1.243
Naphthalene	18.56	10.70	1.735	ok 1.735	1.675-1.795
Nonane	14.16	10.70	1.323	ok 1.324	1.264-1.384
Octane	9.69	4.97	1.950	ok 1.949	1.889-2.009
Pentane	2.62	3.62	0.724	ok 0.723	0.663-0.783
n-Propylbenzene	15.92	10.70	1.488	ok 1.488	1.428-1.548
Propylene	1.87	3.62	0.517	ok 0.516	0.456-0.576
Styrene	12.83	10.70	1.199	ok 1.199	1.139-1.259

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15 Reporting this level
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	4.31	3.62	1.191 ok	1.189	1.129-1.249
1,1,1,2-Tetrachloroethane	10.78	10.70	1.007 ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220 ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.40	4.97	1.489 ok	1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.51	10.70	1.730 ok	1.731	1.671-1.791
1,2,3-Trichloropropane	13.34	10.70	1.247 ok	1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.20	10.70	1.607 ok	1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.82	10.70	1.572 ok	1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.37	10.70	1.530 ok	1.531	1.471-1.591
2,2,4-Trimethylpentane	5.67	4.97	1.141 ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.62	0.749 ok	0.748	0.688-0.808
Tetrachloroethylene	9.55	4.97	1.922 ok	1.921	1.861-1.981
Tetrahydrofuran	3.92	3.62	1.083 ok	1.085	1.025-1.145
Toluene	7.78	4.97	1.565 ok	1.565	1.505-1.625
Trichloroethylene	5.57	4.97	1.121 ok	1.120	1.060-1.180
Trichlorofluoromethane	2.51	3.62	0.693 ok	0.692	0.632-0.752
Vinyl chloride	2.03	3.62	0.561 ok	0.560	0.500-0.620
Vinyl Acetate	3.23	3.62	0.892 ok	0.893	0.833-0.953
m,p-Xylene	12.10	10.70	1.131 ok	1.131	1.071-1.191
o-Xylene	13.05	10.70	1.220 ok	1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.62 ok	3.62	3.29-3.95	49186 ok	47971	28783-67159
1,4-Difluorobenzene	4.97 ok	4.97	4.64-5.30	252266 ok	244786	146872-342700
Chlorobenzene-D5	10.70 ok	10.69	10.36-11.02	222331 ok	218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	2.44	3.63	0.672 ok	0.674	0.614-0.734
Acrolein	2.40	3.63	0.661 ok	0.663	0.603-0.723
Acrylonitrile	2.59	3.63	0.713 ok	0.715	0.655-0.775
Acetonitrile	2.35	3.63	0.647 ok	0.649	0.589-0.709
1,3-Butadiene	2.08	3.63	0.573 ok	0.573	0.513-0.633
Benzene	4.63	3.63	1.275 ok	1.279	1.219-1.339
Bromobenzene	14.45	10.69	1.352 ok	1.350	1.290-1.410
Bromodichloromethane	5.52	4.97	1.111 ok	1.109	1.049-1.169
Bromoform	11.92	10.69	1.115 ok	1.114	1.054-1.174
Bromomethane	2.18	3.63	0.601 ok	0.600	0.540-0.660
Bromoethene	2.37	3.63	0.653 ok	0.652	0.592-0.712
n-Butane	2.10	3.63	0.579 ok	0.579	0.519-0.639
Benzyl Chloride	16.91	10.69	1.582 ok	1.581	1.521-1.641
n-Butylbenzene	17.61	10.69	1.647 ok	1.646	1.586-1.706
sec-Butylbenzene	17.09	10.69	1.599 ok	1.598	1.538-1.658
tert-Butylbenzene	16.82	10.69	1.573 ok	1.572	1.512-1.632
Carbon disulfide	2.84	3.63	0.782 ok	0.784	0.724-0.844
Chlorobenzene	10.78	10.69	1.008 ok	1.008	0.948-1.068
Chlorodifluoromethane	1.86	3.63	0.512 ok	0.513	0.453-0.573
Chloroethane	2.24	3.63	0.617 ok	0.618	0.558-0.678
Chlorotrifluoroethene	1.87	3.63	0.515 ok	0.517	0.457-0.577
Chloroform	3.71	3.63	1.022 ok	1.022	0.962-1.082
Chloromethane	1.95	3.63	0.537 ok	0.538	0.478-0.598
3-Chloropropene	2.78	3.63	0.766 ok	0.768	0.708-0.828
2-Chlorotoluene	15.59	10.69	1.458 ok	1.457	1.397-1.517
Carbon tetrachloride	4.75	3.63	1.309 ok	1.311	1.251-1.371
Cyclohexane	4.86	4.97	0.978 ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.63	0.871 ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.70	3.63	0.744 ok	0.746	0.686-0.806
1,2-Dibromoethane	8.69	4.97	1.748 ok	1.746	1.686-1.806
1,2-Dichloroethane	4.14	3.63	1.140 ok	1.141	1.081-1.201
1,2-Dichloropropane	5.33	4.97	1.072 ok	1.072	1.012-1.132
1,3-Dichloropropane	7.84	4.97	1.577 ok	1.576	1.516-1.636
1,4-Dioxane	5.58	4.97	1.123 ok	1.125	1.065-1.185
Dichlorodifluoromethane	1.89	3.63	0.521 ok	0.522	0.462-0.582
Dichlorofluoromethane	2.27	3.63	0.625 ok	0.625	0.565-0.685
Dibromochloromethane	8.33	4.97	1.676 ok	1.675	1.615-1.735
Dibromomethane	5.29	4.97	1.064 ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.63	0.848 ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.55	3.63	0.978 ok	0.978	0.918-1.038

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	6.54	4.97	1.316	ok 1.315	1.255-1.375
m-Dichlorobenzene	16.88	10.69	1.579	ok 1.578	1.518-1.638
o-Dichlorobenzene	17.25	10.69	1.614	ok 1.613	1.553-1.673
p-Dichlorobenzene	16.96	10.69	1.587	ok 1.586	1.526-1.646
trans-1,3-Dichloropropene	7.24	4.97	1.457	ok 1.456	1.396-1.516
Di-Isopropyl ether	3.69	3.63	1.017	ok 1.018	0.958-1.078
2,3-Dimethylpentane	5.12	4.97	1.030	ok 1.030	0.970-1.090
2,4-Dimethylpentane	4.23	3.63	1.165	ok 1.166	1.106-1.226
Ethanol	2.27	3.63	0.625	ok 0.627	0.567-0.687
Ethylbenzene	11.67	10.69	1.092	ok 1.091	1.031-1.151
Ethyl Acetate	3.69	3.63	1.017	ok 1.019	0.959-1.079
Ethyl Acrylate	5.45	4.97	1.097	ok 1.096	1.036-1.156
4-Ethyltoluene	16.23	10.69	1.518	ok 1.518	1.458-1.578
Freon 113	2.84	3.63	0.782	ok 0.783	0.723-0.843
Freon 114	1.99	3.63	0.548	ok 0.548	0.488-0.608
Freon 123	2.42	3.63	0.667	ok 0.668	0.608-0.728
Freon 123A	2.44	3.63	0.672	ok 0.672	0.612-0.732
Freon 142B	1.94	3.63	0.534	ok 0.536	0.476-0.596
Freon 152A	1.84	3.63	0.507	ok 0.508	0.448-0.568
Heptane	6.00	4.97	1.207	ok 1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.69	1.761	ok 1.760	1.700-1.820
Hexachloroethane	17.78	10.69	1.663	ok 1.663	1.603-1.723
Hexane	3.68	3.63	1.014	ok 1.016	0.956-1.076
2-Hexanone	8.35	4.97	1.680	ok 1.680	1.620-1.740
Iodomethane	2.68	3.63	0.738	ok 0.739	0.679-0.799
Isopropylbenzene	14.58	10.69	1.364	ok 1.362	1.302-1.422
Isopropyl Alcohol	2.52	3.63	0.694	ok 0.696	0.636-0.756
p-Isopropyltoluene	17.26	10.69	1.615	ok 1.614	1.554-1.674
Methylene chloride	2.74	3.63	0.755	ok 0.756	0.696-0.816
Methyl ethyl ketone	3.33	3.63	0.917	ok 0.921	0.861-0.981
Methyl Isobutyl Ketone	6.64	4.97	1.336	ok 1.336	1.276-1.396
Methyl Tert Butyl Ether	3.19	3.63	0.879	ok 0.882	0.822-0.942
Methylmethacrylate	5.88	4.97	1.183	ok 1.183	1.123-1.243
Naphthalene	18.56	10.69	1.736	ok 1.735	1.675-1.795
Nonane	14.17	10.69	1.326	ok 1.324	1.264-1.384
Octane	9.69	4.97	1.950	ok 1.949	1.889-2.009
Pentane	2.62	3.63	0.722	ok 0.723	0.663-0.783
n-Propylbenzene	15.92	10.69	1.489	ok 1.488	1.428-1.548
Propylene	1.87	3.63	0.515	ok 0.516	0.456-0.576
Styrene	12.83	10.69	1.200	ok 1.199	1.139-1.259

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	DFT	10	GCMS2W	TO-15
V2W2318-IC2318	2W52198.D	03/05/21 13:53	DFT	0.5	GCMS2W	TO-15
V2W2318-IC2318	2W52199.D	03/05/21 14:24	DFT	0.2	GCMS2W	TO-15
V2W2318-IC2318	2W52200.D	03/05/21 14:56	DFT	0.1	GCMS2W	TO-15
V2W2318-IC2318	2W52201.D	03/05/21 15:27	DFT	0.04	GCMS2W	TO-15
V2W2318-IC2318	2W52202.D	03/05/21 15:58	DFT	5	GCMS2W	TO-15
V2W2318-IC2318	2W52203.D	03/05/21 16:31	DFT	20	GCMS2W	TO-15
V2W2318-IC2318	2W52204.D	03/05/21 17:05	DFT	40	GCMS2W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	4.31	3.63	1.187	ok 1.189	1.129-1.249
1,1,1,2-Tetrachloroethane	10.79	10.69	1.009	ok 1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.06	10.69	1.222	ok 1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.97	1.491	ok 1.488	1.428-1.548
1,2,4-Trichlorobenzene	18.51	10.69	1.732	ok 1.731	1.671-1.791
1,2,3-Trichloropropane	13.35	10.69	1.249	ok 1.247	1.187-1.307
1,2,3-Trimethylbenzene	17.20	10.69	1.609	ok 1.608	1.548-1.668
1,2,4-Trimethylbenzene	16.83	10.69	1.574	ok 1.573	1.513-1.633
1,3,5-Trimethylbenzene	16.38	10.69	1.532	ok 1.531	1.471-1.591
2,2,4-Trimethylpentane	5.67	4.97	1.141	ok 1.140	1.080-1.200
Tertiary Butyl Alcohol	2.71	3.63	0.747	ok 0.748	0.688-0.808
Tetrachloroethylene	9.55	4.97	1.922	ok 1.921	1.861-1.981
Tetrahydrofuran	3.92	3.63	1.080	ok 1.085	1.025-1.145
Toluene	7.79	4.97	1.567	ok 1.565	1.505-1.625
Trichloroethylene	5.58	4.97	1.123	ok 1.120	1.060-1.180
Trichlorofluoromethane	2.51	3.63	0.691	ok 0.692	0.632-0.752
Vinyl chloride	2.03	3.63	0.559	ok 0.560	0.500-0.620
Vinyl Acetate	3.24	3.63	0.893	ok 0.893	0.833-0.953
m,p-Xylene	12.11	10.69	1.133	ok 1.131	1.071-1.191
o-Xylene	13.05	10.69	1.221	ok 1.220	1.160-1.280

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.63	ok 3.62	3.29-3.95	49505	ok 47971	28783-67159
1,4-Difluorobenzene	4.97	ok 4.97	4.64-5.30	252255	ok 244786	146872-342700
Chlorobenzene-D5	10.69	ok 10.69	10.36-11.02	225970	ok 218496	131098-305894

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15	
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15	
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15	
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15	
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15	
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15	
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.90	11.59	0.768 ok	0.766	0.706-0.826
Acrolein	8.30	11.59	0.716 ok	0.715	0.655-0.775
Acrylonitrile	10.35	11.59	0.893 ok	0.891	0.831-0.951
Acetonitrile	6.49	11.59	0.560 ok	0.559	0.499-0.619
1,3-Butadiene	5.13	11.59	0.443 ok	0.443	0.383-0.503
Benzene	12.75	11.59	1.100 ok	1.100	1.040-1.160
Bromobenzene	21.14	19.06	1.109 ok	1.109	1.049-1.169
Bromodichloromethane	14.77	13.79	1.071 ok	1.071	1.011-1.131
Bromoform	20.21	19.06	1.060 ok	1.060	1.000-1.120
Bromomethane	5.84	11.59	0.504 ok	0.503	0.443-0.563
Bromoethene	6.40	11.59	0.552 ok	0.552	0.492-0.612
Benzyl Chloride	22.81	19.06	1.197 ok	1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197 ok	1.197	1.137-1.257
sec-Butylbenzene	22.10	19.06	1.159 ok	1.160	1.100-1.220
tert-Butylbenzene	21.87	19.06	1.147 ok	1.148	1.088-1.208
Carbon disulfide	7.64	11.59	0.659 ok	0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002 ok	1.002	0.942-1.062
Chloroethane	6.14	11.59	0.530 ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.37	11.59	0.377 ok	0.377	0.317-0.437
Chloroform	11.72	11.59	1.011 ok	1.011	0.951-1.071
Chloromethane	4.85	11.59	0.418 ok	0.418	0.358-0.478
3-Chloropropene	8.59	11.59	0.741 ok	0.740	0.680-0.800
2-Chlorotoluene	21.39	19.06	1.122 ok	1.122	1.062-1.182
Carbon tetrachloride	12.00	11.59	1.035 ok	1.035	0.975-1.095
Cyclohexane	11.64	11.59	1.004 ok	1.004	0.944-1.064
1,1-Dichloroethane	10.26	11.59	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.59	0.656 ok	0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315 ok	1.315	1.255-1.375
1,2-Dichloroethane	13.09	11.59	1.129 ok	1.129	1.069-1.189
1,2-Dichloropropane	14.68	13.79	1.065 ok	1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294 ok	1.294	1.234-1.354
1,4-Dioxane	15.13	13.79	1.097 ok	1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.59	0.381 ok	0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.59	0.570 ok	0.570	0.510-0.630
Dibromochloromethane	17.67	13.79	1.281 ok	1.282	1.222-1.342
Dibromomethane	14.50	13.79	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.11	11.59	0.786 ok	0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.24	11.59	0.970 ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.88	13.79	1.152 ok	1.151	1.091-1.211
m-Dichlorobenzene	22.40	19.06	1.175 ok	1.176	1.116-1.236

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15	
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15	
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15	
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15	
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15	
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15	
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
o-Dichlorobenzene	23.03	19.06	1.208 ok	1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181 ok	1.181	1.121-1.241
trans-1,3-Dichloropropene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Di-Isopropyl ether	10.11	11.59	0.872 ok	0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.59	1.019 ok	1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.59	0.895 ok	0.894	0.834-0.954
Ethanol	7.55	11.59	0.651 ok	0.651	0.591-0.711
Ethyl Acetate	12.10	11.59	1.044 ok	1.031	0.971-1.091
Ethyl Acrylate	14.68	13.79	1.065 ok	1.063	1.003-1.123
4-Ethyltoluene	21.32	19.06	1.119 ok	1.118	1.058-1.178
Freon 113	7.71	11.59	0.665 ok	0.665	0.605-0.725
Freon 114	4.74	11.59	0.409 ok	0.409	0.349-0.469
Freon 123	7.75	11.59	0.669 ok	0.668	0.608-0.728
Freon 123A	7.62	11.59	0.657 ok	0.657	0.597-0.717
Freon 142B	4.86	11.59	0.419 ok	0.418	0.358-0.478
Freon 152A	4.43	11.59	0.382 ok	0.381	0.321-0.441
Heptane	12.70	13.79	0.921 ok	0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300 ok	1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207 ok	1.207	1.147-1.267
Hexane	9.30	11.59	0.802 ok	0.802	0.742-0.862
2-Hexanone	18.51	13.79	1.342 ok	1.341	1.281-1.401
Iodomethane	7.89	11.59	0.681 ok	0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079 ok	1.079	1.019-1.139
Isopropyl Alcohol	8.70	11.59	0.751 ok	0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169 ok	1.169	1.109-1.229
Methylene chloride	8.79	11.59	0.758 ok	0.758	0.698-0.818
Methyl ethyl ketone	12.27	11.59	1.059 ok	1.057	0.997-1.117
Methyl Isobutyl Ketone	16.98	13.79	1.231 ok	1.230	1.170-1.290
Methyl Tert Butyl Ether	9.40	11.59	0.811 ok	0.808	0.748-0.868
Methylmethacrylate	15.03	13.79	1.090 ok	1.089	1.029-1.149
Naphthalene	25.28	19.06	1.326 ok	1.326	1.266-1.386
Nonane	18.95	19.06	0.994 ok	0.994	0.934-1.054
Octane	15.98	13.79	1.159 ok	1.159	1.099-1.219
n-Propylbenzene	21.17	19.06	1.111 ok	1.111	1.051-1.171
Propylene	4.32	11.59	0.373 ok	0.372	0.312-0.432
Styrene	20.16	19.06	1.058 ok	1.058	0.998-1.118
1,1,1-Trichloroethane	12.11	11.59	1.045 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.19	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.25	19.06	1.115 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.33	13.79	1.257 ok	1.257	1.197-1.317

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15	
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15	
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15	
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15	
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15	
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15	
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,2,4-Trichlorobenzene	24.84	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.44	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.56	11.59	0.825 ok	0.823	0.763-0.883
Tetrachloroethylene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Tetrahydrofuran	12.05	11.59	1.040 ok	1.038	0.978-1.098
Toluene	16.32	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.76	13.79	0.998 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.48	11.59	0.559 ok	0.559	0.499-0.619
Vinyl chloride	5.07	11.59	0.437 ok	0.437	0.377-0.497
Vinyl Acetate	10.75	11.59	0.928 ok	0.926	0.866-0.986
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.59 ok	11.60	11.27-11.93	125186	ok 122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	428991	ok 419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	189829	ok 188478	113087-263869

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.90	11.59	0.768 ok	0.766	0.706-0.826
Acrolein	8.30	11.59	0.716 ok	0.715	0.655-0.775
Acrylonitrile	10.35	11.59	0.893 ok	0.891	0.831-0.951
Acetonitrile	6.48	11.59	0.559 ok	0.559	0.499-0.619
1,3-Butadiene	5.14	11.59	0.443 ok	0.443	0.383-0.503
Benzene	12.75	11.59	1.100 ok	1.100	1.040-1.160
Bromobenzene	21.15	19.06	1.110 ok	1.109	1.049-1.169
Bromodichloromethane	14.76	13.79	1.070 ok	1.071	1.011-1.131
Bromoform	20.21	19.06	1.060 ok	1.060	1.000-1.120
Bromomethane	5.83	11.59	0.503 ok	0.503	0.443-0.563
Bromoethene	6.40	11.59	0.552 ok	0.552	0.492-0.612
Benzyl Chloride	22.80	19.06	1.196 ok	1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197 ok	1.197	1.137-1.257
sec-Butylbenzene	22.10	19.06	1.159 ok	1.160	1.100-1.220
tert-Butylbenzene	21.88	19.06	1.148 ok	1.148	1.088-1.208
Carbon disulfide	7.64	11.59	0.659 ok	0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002 ok	1.002	0.942-1.062
Chlorodifluoromethane	4.51	11.59	0.389 ok	0.388	0.328-0.448
Chloroethane	6.14	11.59	0.530 ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.37	11.59	0.377 ok	0.377	0.317-0.437
Chloroform	11.73	11.59	1.012 ok	1.011	0.951-1.071
Chloromethane	4.85	11.59	0.418 ok	0.418	0.358-0.478
3-Chloropropene	8.58	11.59	0.740 ok	0.740	0.680-0.800
2-Chlorotoluene	21.40	19.06	1.123 ok	1.122	1.062-1.182
Carbon tetrachloride	12.00	11.59	1.035 ok	1.035	0.975-1.095
Cyclohexane	11.63	11.59	1.003 ok	1.004	0.944-1.064
1,1-Dichloroethane	10.28	11.59	0.887 ok	0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.59	0.656 ok	0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315 ok	1.315	1.255-1.375
1,2-Dichloroethane	13.09	11.59	1.129 ok	1.129	1.069-1.189
1,2-Dichloropropane	14.66	13.79	1.063 ok	1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294 ok	1.294	1.234-1.354
1,4-Dioxane	15.13	13.79	1.097 ok	1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.59	0.381 ok	0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.59	0.570 ok	0.570	0.510-0.630
Dibromochloromethane	17.67	13.79	1.281 ok	1.282	1.222-1.342
Dibromomethane	14.50	13.79	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.11	11.59	0.786 ok	0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.25	11.59	0.971 ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.88	13.79	1.152 ok	1.151	1.091-1.211

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
m-Dichlorobenzene	22.40	19.06	1.175 ok	1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208 ok	1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181 ok	1.181	1.121-1.241
trans-1,3-Dichloropropene	17.04	13.79	1.236 ok	1.235	1.175-1.295
Di-Isopropyl ether	10.11	11.59	0.872 ok	0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.59	1.019 ok	1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.59	0.895 ok	0.894	0.834-0.954
Ethanol	7.56	11.59	0.652 ok	0.651	0.591-0.711
Ethylbenzene	19.13	19.06	1.004 ok	1.004	0.944-1.064
Ethyl Acetate	11.95	11.59	1.031 ok	1.031	0.971-1.091
Ethyl Acrylate	14.68	13.79	1.065 ok	1.063	1.003-1.123
4-Ethyltoluene	21.32	19.06	1.119 ok	1.118	1.058-1.178
Freon 113	7.71	11.59	0.665 ok	0.665	0.605-0.725
Freon 114	4.74	11.59	0.409 ok	0.409	0.349-0.469
Freon 123	7.74	11.59	0.668 ok	0.668	0.608-0.728
Freon 123A	7.62	11.59	0.657 ok	0.657	0.597-0.717
Freon 142B	4.86	11.59	0.419 ok	0.418	0.358-0.478
Freon 152A	4.43	11.59	0.382 ok	0.381	0.321-0.441
Heptane	12.70	13.79	0.921 ok	0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300 ok	1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207 ok	1.207	1.147-1.267
Hexane	9.30	11.59	0.802 ok	0.802	0.742-0.862
2-Hexanone	18.50	13.79	1.342 ok	1.341	1.281-1.401
Iodomethane	7.88	11.59	0.680 ok	0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079 ok	1.079	1.019-1.139
Isopropyl Alcohol	8.70	11.59	0.751 ok	0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169 ok	1.169	1.109-1.229
Methylene chloride	8.78	11.59	0.758 ok	0.758	0.698-0.818
Methyl ethyl ketone	12.27	11.59	1.059 ok	1.057	0.997-1.117
Methyl Isobutyl Ketone	16.97	13.79	1.231 ok	1.230	1.170-1.290
Methyl Tert Butyl Ether	9.38	11.59	0.809 ok	0.808	0.748-0.868
Methylmethacrylate	15.02	13.79	1.089 ok	1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326 ok	1.326	1.266-1.386
Nonane	18.94	19.06	0.994 ok	0.994	0.934-1.054
Octane	15.98	13.79	1.159 ok	1.159	1.099-1.219
Pentane	6.48	11.59	0.559 ok	0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111 ok	1.111	1.051-1.171
Propylene	4.32	11.59	0.373 ok	0.372	0.312-0.432
Styrene	20.16	19.06	1.058 ok	1.058	0.998-1.118
1,1,1-Trichloroethane	12.10	11.59	1.044 ok	1.044	0.984-1.104

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1,2-Tetrachloroethane	19.19	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.24	19.06	1.114 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.34	13.79	1.257 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.84	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.44	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.57	11.59	0.826 ok	0.823	0.763-0.883
Tetrachloroethylene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Tetrahydrofuran	12.05	11.59	1.040 ok	1.038	0.978-1.098
Toluene	16.31	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.76	13.79	0.998 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.47	11.59	0.558 ok	0.559	0.499-0.619
Vinyl chloride	5.08	11.59	0.438 ok	0.437	0.377-0.497
Vinyl Acetate	10.74	11.59	0.927 ok	0.926	0.866-0.986
m,p-Xylene	19.37	19.06	1.016 ok	1.016	0.956-1.076
o-Xylene	20.08	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.59 ok	11.60	11.27-11.93	110914 ok	122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	366374 ok	419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	185410 ok	188478	113087-263869

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.90	11.60	0.767 ok	0.766	0.706-0.826
Acrolein	8.31	11.60	0.716 ok	0.715	0.655-0.775
Acrylonitrile	10.34	11.60	0.891 ok	0.891	0.831-0.951
Acetonitrile	6.49	11.60	0.559 ok	0.559	0.499-0.619
1,3-Butadiene	5.14	11.60	0.443 ok	0.443	0.383-0.503
Benzene	12.75	11.60	1.099 ok	1.100	1.040-1.160
Bromobenzene	21.15	19.06	1.110 ok	1.109	1.049-1.169
Bromodichloromethane	14.77	13.79	1.071 ok	1.071	1.011-1.131
Bromoform	20.21	19.06	1.060 ok	1.060	1.000-1.120
Bromomethane	5.84	11.60	0.503 ok	0.503	0.443-0.563
Bromoethene	6.40	11.60	0.552 ok	0.552	0.492-0.612
n-Butane	4.96	11.60	0.428 ok	0.427	0.367-0.487
Benzyl Chloride	22.80	19.06	1.196 ok	1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197 ok	1.197	1.137-1.257
sec-Butylbenzene	22.10	19.06	1.159 ok	1.160	1.100-1.220
tert-Butylbenzene	21.87	19.06	1.147 ok	1.148	1.088-1.208
Carbon disulfide	7.65	11.60	0.659 ok	0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002 ok	1.002	0.942-1.062
Chlorodifluoromethane	4.50	11.60	0.388 ok	0.388	0.328-0.448
Chloroethane	6.15	11.60	0.530 ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.38	11.60	0.378 ok	0.377	0.317-0.437
Chloroform	11.73	11.60	1.011 ok	1.011	0.951-1.071
Chloromethane	4.86	11.60	0.419 ok	0.418	0.358-0.478
3-Chloropropene	8.59	11.60	0.741 ok	0.740	0.680-0.800
2-Chlorotoluene	21.39	19.06	1.122 ok	1.122	1.062-1.182
Carbon tetrachloride	12.00	11.60	1.034 ok	1.035	0.975-1.095
Cyclohexane	11.64	11.60	1.003 ok	1.004	0.944-1.064
1,1-Dichloroethane	10.27	11.60	0.885 ok	0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.60	0.655 ok	0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315 ok	1.315	1.255-1.375
1,2-Dichloroethane	13.09	11.60	1.128 ok	1.129	1.069-1.189
1,2-Dichloropropane	14.66	13.79	1.063 ok	1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294 ok	1.294	1.234-1.354
1,4-Dioxane	15.12	13.79	1.096 ok	1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.60	0.381 ok	0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.60	0.570 ok	0.570	0.510-0.630
Dibromochloromethane	17.68	13.79	1.282 ok	1.282	1.222-1.342
Dibromomethane	14.50	13.79	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.12	11.60	0.786 ok	0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.25	11.60	0.970 ok	0.970	0.910-1.030

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114
 Account: FLSNYYNY Fleming-Lee Shue, Inc.
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	15.87	13.79	1.151 ok	1.151	1.091-1.211
m-Dichlorobenzene	22.40	19.06	1.175 ok	1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208 ok	1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181 ok	1.181	1.121-1.241
trans-1,3-Dichloropropene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Di-Isopropyl ether	10.11	11.60	0.872 ok	0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.60	1.018 ok	1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.60	0.894 ok	0.894	0.834-0.954
Ethanol	7.56	11.60	0.652 ok	0.651	0.591-0.711
Ethylbenzene	19.13	19.06	1.004 ok	1.004	0.944-1.064
Ethyl Acetate	11.95	11.60	1.030 ok	1.031	0.971-1.091
Ethyl Acrylate	14.68	13.79	1.065 ok	1.063	1.003-1.123
4-Ethyltoluene	21.31	19.06	1.118 ok	1.118	1.058-1.178
Freon 113	7.71	11.60	0.665 ok	0.665	0.605-0.725
Freon 114	4.75	11.60	0.409 ok	0.409	0.349-0.469
Freon 123	7.74	11.60	0.667 ok	0.668	0.608-0.728
Freon 123A	7.62	11.60	0.657 ok	0.657	0.597-0.717
Freon 142B	4.86	11.60	0.419 ok	0.418	0.358-0.478
Freon 152A	4.43	11.60	0.382 ok	0.381	0.321-0.441
Heptane	12.71	13.79	0.922 ok	0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300 ok	1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207 ok	1.207	1.147-1.267
Hexane	9.30	11.60	0.802 ok	0.802	0.742-0.862
2-Hexanone	18.50	13.79	1.342 ok	1.341	1.281-1.401
Iodomethane	7.88	11.60	0.679 ok	0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079 ok	1.079	1.019-1.139
Isopropyl Alcohol	8.70	11.60	0.750 ok	0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169 ok	1.169	1.109-1.229
Methylene chloride	8.79	11.60	0.758 ok	0.758	0.698-0.818
Methyl ethyl ketone	12.27	11.60	1.058 ok	1.057	0.997-1.117
Methyl Isobutyl Ketone	16.96	13.79	1.230 ok	1.230	1.170-1.290
Methyl Tert Butyl Ether	9.39	11.60	0.809 ok	0.808	0.748-0.868
Methylmethacrylate	15.02	13.79	1.089 ok	1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326 ok	1.326	1.266-1.386
Nonane	18.94	19.06	0.994 ok	0.994	0.934-1.054
Octane	15.98	13.79	1.159 ok	1.159	1.099-1.219
Pentane	6.48	11.60	0.559 ok	0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111 ok	1.111	1.051-1.171
Propylene	4.33	11.60	0.373 ok	0.372	0.312-0.432
Styrene	20.16	19.06	1.058 ok	1.058	0.998-1.118

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	12.11	11.60	1.044 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.19	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.24	19.06	1.114 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.33	13.79	1.257 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.83	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.44	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.57	11.60	0.825 ok	0.823	0.763-0.883
Tetrachloroethylene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Tetrahydrofuran	12.04	11.60	1.038 ok	1.038	0.978-1.098
Toluene	16.32	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.77	13.79	0.999 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.48	11.60	0.559 ok	0.559	0.499-0.619
Vinyl chloride	5.08	11.60	0.438 ok	0.437	0.377-0.497
Vinyl Acetate	10.74	11.60	0.926 ok	0.926	0.866-0.986
m,p-Xylene	19.37	19.06	1.016 ok	1.016	0.956-1.076
o-Xylene	20.08	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.60 ok	11.60	11.27-11.93	120365 ok	122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	417729 ok	419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	192330 ok	188478	113087-263869

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.89	11.59	0.767	ok 0.766	0.706-0.826
Acrolein	8.29	11.59	0.715	ok 0.715	0.655-0.775
Acrylonitrile	10.33	11.59	0.891	ok 0.891	0.831-0.951
Acetonitrile	6.48	11.59	0.559	ok 0.559	0.499-0.619
1,3-Butadiene	5.13	11.59	0.443	ok 0.443	0.383-0.503
Benzene	12.75	11.59	1.100	ok 1.100	1.040-1.160
Bromobenzene	21.14	19.06	1.109	ok 1.109	1.049-1.169
Bromodichloromethane	14.76	13.79	1.070	ok 1.071	1.011-1.131
Bromoform	20.21	19.06	1.060	ok 1.060	1.000-1.120
Bromomethane	5.82	11.59	0.502	ok 0.503	0.443-0.563
Bromoethene	6.40	11.59	0.552	ok 0.552	0.492-0.612
n-Butane	4.95	11.59	0.427	ok 0.427	0.367-0.487
Benzyl Chloride	22.80	19.06	1.196	ok 1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197	ok 1.197	1.137-1.257
sec-Butylbenzene	22.10	19.06	1.159	ok 1.160	1.100-1.220
tert-Butylbenzene	21.87	19.06	1.147	ok 1.148	1.088-1.208
Carbon disulfide	7.64	11.59	0.659	ok 0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002	ok 1.002	0.942-1.062
Chlorodifluoromethane	4.50	11.59	0.388	ok 0.388	0.328-0.448
Chloroethane	6.14	11.59	0.530	ok 0.530	0.470-0.590
Chlorotrifluoroethene	4.37	11.59	0.377	ok 0.377	0.317-0.437
Chloroform	11.72	11.59	1.011	ok 1.011	0.951-1.071
Chloromethane	4.85	11.59	0.418	ok 0.418	0.358-0.478
3-Chloropropene	8.58	11.59	0.740	ok 0.740	0.680-0.800
2-Chlorotoluene	21.39	19.06	1.122	ok 1.122	1.062-1.182
Carbon tetrachloride	12.00	11.59	1.035	ok 1.035	0.975-1.095
Cyclohexane	11.63	11.59	1.003	ok 1.004	0.944-1.064
1,1-Dichloroethane	10.27	11.59	0.886	ok 0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.59	0.656	ok 0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315	ok 1.315	1.255-1.375
1,2-Dichloroethane	13.08	11.59	1.129	ok 1.129	1.069-1.189
1,2-Dichloropropane	14.66	13.79	1.063	ok 1.063	1.003-1.123
1,3-Dichloropropane	17.83	13.79	1.293	ok 1.294	1.234-1.354
1,4-Dioxane	15.11	13.79	1.096	ok 1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.59	0.381	ok 0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.59	0.570	ok 0.570	0.510-0.630
Dibromochloromethane	17.67	13.79	1.281	ok 1.282	1.222-1.342
Dibromomethane	14.49	13.79	1.051	ok 1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.11	11.59	0.786	ok 0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.24	11.59	0.970	ok 0.970	0.910-1.030

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	15.87	13.79	1.151	ok 1.151	1.091-1.211
m-Dichlorobenzene	22.51	19.06	1.181	ok 1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208	ok 1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181	ok 1.181	1.121-1.241
trans-1,3-Dichloropropene	17.03	13.79	1.235	ok 1.235	1.175-1.295
Di-Isopropyl ether	10.09	11.59	0.871	ok 0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.59	1.019	ok 1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.59	0.895	ok 0.894	0.834-0.954
Ethanol	7.55	11.59	0.651	ok 0.651	0.591-0.711
Ethylbenzene	19.12	19.06	1.003	ok 1.004	0.944-1.064
Ethyl Acetate	11.93	11.59	1.029	ok 1.031	0.971-1.091
Ethyl Acrylate	14.66	13.79	1.063	ok 1.063	1.003-1.123
4-Ethyltoluene	21.31	19.06	1.118	ok 1.118	1.058-1.178
Freon 113	7.71	11.59	0.665	ok 0.665	0.605-0.725
Freon 114	4.73	11.59	0.408	ok 0.409	0.349-0.469
Freon 123	7.74	11.59	0.668	ok 0.668	0.608-0.728
Freon 123A	7.62	11.59	0.657	ok 0.657	0.597-0.717
Freon 142B	4.85	11.59	0.418	ok 0.418	0.358-0.478
Freon 152A	4.42	11.59	0.381	ok 0.381	0.321-0.441
Heptane	12.70	13.79	0.921	ok 0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300	ok 1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207	ok 1.207	1.147-1.267
Hexane	9.30	11.59	0.802	ok 0.802	0.742-0.862
2-Hexanone	18.49	13.79	1.341	ok 1.341	1.281-1.401
Iodomethane	7.88	11.59	0.680	ok 0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079	ok 1.079	1.019-1.139
Isopropyl Alcohol	8.69	11.59	0.750	ok 0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169	ok 1.169	1.109-1.229
Methylene chloride	8.78	11.59	0.758	ok 0.758	0.698-0.818
Methyl ethyl ketone	12.25	11.59	1.057	ok 1.057	0.997-1.117
Methyl Isobutyl Ketone	16.96	13.79	1.230	ok 1.230	1.170-1.290
Methyl Tert Butyl Ether	9.38	11.59	0.809	ok 0.808	0.748-0.868
Methylmethacrylate	15.01	13.79	1.088	ok 1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326	ok 1.326	1.266-1.386
Nonane	18.94	19.06	0.994	ok 0.994	0.934-1.054
Octane	15.98	13.79	1.159	ok 1.159	1.099-1.219
Pentane	6.48	11.59	0.559	ok 0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111	ok 1.111	1.051-1.171
Propylene	4.32	11.59	0.373	ok 0.372	0.312-0.432
Styrene	20.16	19.06	1.058	ok 1.058	0.998-1.118

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	12.11	11.59	1.045 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.19	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.24	19.06	1.114 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.32	13.79	1.256 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.84	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.44	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.55	11.59	0.824 ok	0.823	0.763-0.883
Tetrachloroethylene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Tetrahydrofuran	12.04	11.59	1.039 ok	1.038	0.978-1.098
Toluene	16.31	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.76	13.79	0.998 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.47	11.59	0.558 ok	0.559	0.499-0.619
Vinyl chloride	5.07	11.59	0.437 ok	0.437	0.377-0.497
Vinyl Acetate	10.74	11.59	0.927 ok	0.926	0.866-0.986
m,p-Xylene	19.37	19.06	1.016 ok	1.016	0.956-1.076
o-Xylene	20.08	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.59 ok	11.60	11.27-11.93	118886 ok	122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	409811 ok	419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	187158 ok	188478	113087-263869

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15 Reporting this level
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.88	11.60	0.766	ok 0.766	0.706-0.826
Acrolein	8.29	11.60	0.715	ok 0.715	0.655-0.775
Acrylonitrile	10.33	11.60	0.891	ok 0.891	0.831-0.951
Acetonitrile	6.48	11.60	0.559	ok 0.559	0.499-0.619
1,3-Butadiene	5.13	11.60	0.442	ok 0.443	0.383-0.503
Benzene	12.75	11.60	1.099	ok 1.100	1.040-1.160
Bromobenzene	21.14	19.06	1.109	ok 1.109	1.049-1.169
Bromodichloromethane	14.77	13.79	1.071	ok 1.071	1.011-1.131
Bromoform	20.21	19.06	1.060	ok 1.060	1.000-1.120
Bromomethane	5.82	11.60	0.502	ok 0.503	0.443-0.563
Bromoethene	6.40	11.60	0.552	ok 0.552	0.492-0.612
n-Butane	4.95	11.60	0.427	ok 0.427	0.367-0.487
Benzyl Chloride	22.80	19.06	1.196	ok 1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197	ok 1.197	1.137-1.257
sec-Butylbenzene	22.10	19.06	1.159	ok 1.160	1.100-1.220
tert-Butylbenzene	21.87	19.06	1.147	ok 1.148	1.088-1.208
Carbon disulfide	7.65	11.60	0.659	ok 0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002	ok 1.002	0.942-1.062
Chlorodifluoromethane	4.50	11.60	0.388	ok 0.388	0.328-0.448
Chloroethane	6.14	11.60	0.529	ok 0.530	0.470-0.590
Chlorotrifluoroethene	4.37	11.60	0.377	ok 0.377	0.317-0.437
Chloroform	11.73	11.60	1.011	ok 1.011	0.951-1.071
Chloromethane	4.85	11.60	0.418	ok 0.418	0.358-0.478
3-Chloropropene	8.58	11.60	0.740	ok 0.740	0.680-0.800
2-Chlorotoluene	21.39	19.06	1.122	ok 1.122	1.062-1.182
Carbon tetrachloride	12.00	11.60	1.034	ok 1.035	0.975-1.095
Cyclohexane	11.64	11.60	1.003	ok 1.004	0.944-1.064
1,1-Dichloroethane	10.27	11.60	0.885	ok 0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.60	0.655	ok 0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315	ok 1.315	1.255-1.375
1,2-Dichloroethane	13.08	11.60	1.128	ok 1.129	1.069-1.189
1,2-Dichloropropane	14.66	13.79	1.063	ok 1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294	ok 1.294	1.234-1.354
1,4-Dioxane	15.10	13.79	1.095	ok 1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.60	0.381	ok 0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.60	0.570	ok 0.570	0.510-0.630
Dibromochloromethane	17.67	13.79	1.281	ok 1.282	1.222-1.342
Dibromomethane	14.49	13.79	1.051	ok 1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.11	11.60	0.785	ok 0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.24	11.60	0.969	ok 0.970	0.910-1.030

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

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V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15 Reporting this level
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	15.87	13.79	1.151	ok 1.151	1.091-1.211
m-Dichlorobenzene	22.40	19.06	1.175	ok 1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208	ok 1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181	ok 1.181	1.121-1.241
trans-1,3-Dichloropropene	17.03	13.79	1.235	ok 1.235	1.175-1.295
Di-Isopropyl ether	10.08	11.60	0.869	ok 0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.60	1.018	ok 1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.60	0.894	ok 0.894	0.834-0.954
Ethanol	7.54	11.60	0.650	ok 0.651	0.591-0.711
Ethylbenzene	19.12	19.06	1.003	ok 1.004	0.944-1.064
Ethyl Acetate	11.93	11.60	1.028	ok 1.031	0.971-1.091
Ethyl Acrylate	14.65	13.79	1.062	ok 1.063	1.003-1.123
4-Ethyltoluene	21.31	19.06	1.118	ok 1.118	1.058-1.178
Freon 113	7.71	11.60	0.665	ok 0.665	0.605-0.725
Freon 114	4.74	11.60	0.409	ok 0.409	0.349-0.469
Freon 123	7.74	11.60	0.667	ok 0.668	0.608-0.728
Freon 123A	7.62	11.60	0.657	ok 0.657	0.597-0.717
Freon 142B	4.85	11.60	0.418	ok 0.418	0.358-0.478
Freon 152A	4.42	11.60	0.381	ok 0.381	0.321-0.441
Heptane	12.70	13.79	0.921	ok 0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300	ok 1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207	ok 1.207	1.147-1.267
Hexane	9.30	11.60	0.802	ok 0.802	0.742-0.862
2-Hexanone	18.49	13.79	1.341	ok 1.341	1.281-1.401
Iodomethane	7.88	11.60	0.679	ok 0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079	ok 1.079	1.019-1.139
Isopropyl Alcohol	8.67	11.60	0.747	ok 0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169	ok 1.169	1.109-1.229
Methylene chloride	8.78	11.60	0.757	ok 0.758	0.698-0.818
Methyl ethyl ketone	12.24	11.60	1.055	ok 1.057	0.997-1.117
Methyl Isobutyl Ketone	16.95	13.79	1.229	ok 1.230	1.170-1.290
Methyl Tert Butyl Ether	9.36	11.60	0.807	ok 0.808	0.748-0.868
Methylmethacrylate	15.01	13.79	1.088	ok 1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326	ok 1.326	1.266-1.386
Nonane	18.95	19.06	0.994	ok 0.994	0.934-1.054
Octane	15.98	13.79	1.159	ok 1.159	1.099-1.219
Pentane	6.48	11.60	0.559	ok 0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111	ok 1.111	1.051-1.171
Propylene	4.32	11.60	0.372	ok 0.372	0.312-0.432
Styrene	20.16	19.06	1.058	ok 1.058	0.998-1.118

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V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15 Reporting this level
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V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	12.11	11.60	1.044 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.19	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.24	19.06	1.114 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.33	13.79	1.257 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.83	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.44	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.53	11.60	0.822 ok	0.823	0.763-0.883
Tetrachloroethylene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Tetrahydrofuran	12.02	11.60	1.036 ok	1.038	0.978-1.098
Toluene	16.31	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.76	13.79	0.998 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.48	11.60	0.559 ok	0.559	0.499-0.619
Vinyl chloride	5.07	11.60	0.437 ok	0.437	0.377-0.497
Vinyl Acetate	10.72	11.60	0.924 ok	0.926	0.866-0.986
m,p-Xylene	19.37	19.06	1.016 ok	1.016	0.956-1.076
o-Xylene	20.08	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.60 ok	11.60	11.27-11.93	124109 ok	122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	426539 ok	419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	190982 ok	188478	113087-263869

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V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15 Reporting this level
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Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.87	11.59	0.765 ok	0.766	0.706-0.826
Acrolein	8.28	11.59	0.714 ok	0.715	0.655-0.775
Acrylonitrile	10.33	11.59	0.891 ok	0.891	0.831-0.951
Acetonitrile	6.48	11.59	0.559 ok	0.559	0.499-0.619
1,3-Butadiene	5.13	11.59	0.443 ok	0.443	0.383-0.503
Benzene	12.75	11.59	1.100 ok	1.100	1.040-1.160
Bromobenzene	21.14	19.06	1.109 ok	1.109	1.049-1.169
Bromodichloromethane	14.77	13.79	1.071 ok	1.071	1.011-1.131
Bromoform	20.21	19.06	1.060 ok	1.060	1.000-1.120
Bromomethane	5.82	11.59	0.502 ok	0.503	0.443-0.563
Bromoethene	6.39	11.59	0.551 ok	0.552	0.492-0.612
n-Butane	4.94	11.59	0.426 ok	0.427	0.367-0.487
Benzyl Chloride	22.80	19.06	1.196 ok	1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197 ok	1.197	1.137-1.257
sec-Butylbenzene	22.10	19.06	1.159 ok	1.160	1.100-1.220
tert-Butylbenzene	21.87	19.06	1.147 ok	1.148	1.088-1.208
Carbon disulfide	7.64	11.59	0.659 ok	0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002 ok	1.002	0.942-1.062
Chlorodifluoromethane	4.48	11.59	0.387 ok	0.388	0.328-0.448
Chloroethane	6.13	11.59	0.529 ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.36	11.59	0.376 ok	0.377	0.317-0.437
Chloroform	11.73	11.59	1.012 ok	1.011	0.951-1.071
Chloromethane	4.84	11.59	0.418 ok	0.418	0.358-0.478
3-Chloropropene	8.58	11.59	0.740 ok	0.740	0.680-0.800
2-Chlorotoluene	21.39	19.06	1.122 ok	1.122	1.062-1.182
Carbon tetrachloride	12.00	11.59	1.035 ok	1.035	0.975-1.095
Cyclohexane	11.64	11.59	1.004 ok	1.004	0.944-1.064
1,1-Dichloroethane	10.27	11.59	0.886 ok	0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.59	0.656 ok	0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315 ok	1.315	1.255-1.375
1,2-Dichloroethane	13.08	11.59	1.129 ok	1.129	1.069-1.189
1,2-Dichloropropane	14.66	13.79	1.063 ok	1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294 ok	1.294	1.234-1.354
1,4-Dioxane	15.10	13.79	1.095 ok	1.096	1.036-1.156
Dichlorodifluoromethane	4.40	11.59	0.380 ok	0.381	0.321-0.441
Dichlorofluoromethane	6.60	11.59	0.569 ok	0.570	0.510-0.630
Dibromochloromethane	17.67	13.79	1.281 ok	1.282	1.222-1.342
Dibromomethane	14.49	13.79	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.11	11.59	0.786 ok	0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.24	11.59	0.970 ok	0.970	0.910-1.030

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m-Dichlorobenzene	22.40	19.06	1.175 ok	1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208 ok	1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181 ok	1.181	1.121-1.241
trans-1,3-Dichloropropene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Di-Isopropyl ether	10.07	11.59	0.869 ok	0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.59	1.019 ok	1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.59	0.895 ok	0.894	0.834-0.954
Ethanol	7.53	11.59	0.650 ok	0.651	0.591-0.711
Ethylbenzene	19.13	19.06	1.004 ok	1.004	0.944-1.064
Ethyl Acetate	11.92	11.59	1.028 ok	1.031	0.971-1.091
Ethyl Acrylate	14.65	13.79	1.062 ok	1.063	1.003-1.123
4-Ethyltoluene	21.32	19.06	1.119 ok	1.118	1.058-1.178
Freon 113	7.71	11.59	0.665 ok	0.665	0.605-0.725
Freon 114	4.73	11.59	0.408 ok	0.409	0.349-0.469
Freon 123	7.74	11.59	0.668 ok	0.668	0.608-0.728
Freon 123A	7.61	11.59	0.657 ok	0.657	0.597-0.717
Freon 142B	4.84	11.59	0.418 ok	0.418	0.358-0.478
Freon 152A	4.41	11.59	0.381 ok	0.381	0.321-0.441
Heptane	12.70	13.79	0.921 ok	0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300 ok	1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207 ok	1.207	1.147-1.267
Hexane	9.30	11.59	0.802 ok	0.802	0.742-0.862
2-Hexanone	18.48	13.79	1.340 ok	1.341	1.281-1.401
Iodomethane	7.88	11.59	0.680 ok	0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079 ok	1.079	1.019-1.139
Isopropyl Alcohol	8.67	11.59	0.748 ok	0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169 ok	1.169	1.109-1.229
Methylene chloride	8.78	11.59	0.758 ok	0.758	0.698-0.818
Methyl ethyl ketone	12.24	11.59	1.056 ok	1.057	0.997-1.117
Methyl Isobutyl Ketone	16.95	13.79	1.229 ok	1.230	1.170-1.290
Methyl Tert Butyl Ether	9.35	11.59	0.807 ok	0.808	0.748-0.868
Methylmethacrylate	15.01	13.79	1.088 ok	1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326 ok	1.326	1.266-1.386
Nonane	18.95	19.06	0.994 ok	0.994	0.934-1.054
Octane	15.98	13.79	1.159 ok	1.159	1.099-1.219
Pentane	6.48	11.59	0.559 ok	0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111 ok	1.111	1.051-1.171
Propylene	4.31	11.59	0.372 ok	0.372	0.312-0.432
Styrene	20.16	19.06	1.058 ok	1.058	0.998-1.118

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	12.11	11.59	1.045 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.19	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.25	19.06	1.115 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.33	13.79	1.257 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.83	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.44	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.52	11.59	0.821 ok	0.823	0.763-0.883
Tetrachloroethylene	17.03	13.79	1.235 ok	1.235	1.175-1.295
Tetrahydrofuran	12.01	11.59	1.036 ok	1.038	0.978-1.098
Toluene	16.32	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.76	13.79	0.998 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.47	11.59	0.558 ok	0.559	0.499-0.619
Vinyl chloride	5.06	11.59	0.437 ok	0.437	0.377-0.497
Vinyl Acetate	10.72	11.59	0.925 ok	0.926	0.866-0.986
m,p-Xylene	19.37	19.06	1.016 ok	1.016	0.956-1.076
o-Xylene	20.08	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.59 ok	11.60	11.27-11.93	128085 ok	122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	438889 ok	419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	196550 ok	188478	113087-263869

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.88	11.60	0.766	ok 0.766	0.706-0.826
Acrolein	8.29	11.60	0.715	ok 0.715	0.655-0.775
Acrylonitrile	10.33	11.60	0.891	ok 0.891	0.831-0.951
Acetonitrile	6.49	11.60	0.559	ok 0.559	0.499-0.619
1,3-Butadiene	5.13	11.60	0.442	ok 0.443	0.383-0.503
Benzene	12.75	11.60	1.099	ok 1.100	1.040-1.160
Bromobenzene	21.15	19.06	1.110	ok 1.109	1.049-1.169
Bromodichloromethane	14.77	13.79	1.071	ok 1.071	1.011-1.131
Bromoform	20.21	19.06	1.060	ok 1.060	1.000-1.120
Bromomethane	5.83	11.60	0.503	ok 0.503	0.443-0.563
Bromoethene	6.40	11.60	0.552	ok 0.552	0.492-0.612
n-Butane	4.95	11.60	0.427	ok 0.427	0.367-0.487
Benzyl Chloride	22.80	19.06	1.196	ok 1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197	ok 1.197	1.137-1.257
sec-Butylbenzene	22.11	19.06	1.160	ok 1.160	1.100-1.220
tert-Butylbenzene	21.88	19.06	1.148	ok 1.148	1.088-1.208
Carbon disulfide	7.65	11.60	0.659	ok 0.659	0.599-0.719
Chlorobenzene	19.09	19.06	1.002	ok 1.002	0.942-1.062
Chlorodifluoromethane	4.50	11.60	0.388	ok 0.388	0.328-0.448
Chloroethane	6.14	11.60	0.529	ok 0.530	0.470-0.590
Chlorotrifluoroethene	4.37	11.60	0.377	ok 0.377	0.317-0.437
Chloroform	11.73	11.60	1.011	ok 1.011	0.951-1.071
Chloromethane	4.85	11.60	0.418	ok 0.418	0.358-0.478
3-Chloropropene	8.59	11.60	0.741	ok 0.740	0.680-0.800
2-Chlorotoluene	21.40	19.06	1.123	ok 1.122	1.062-1.182
Carbon tetrachloride	12.00	11.60	1.034	ok 1.035	0.975-1.095
Cyclohexane	11.65	11.60	1.004	ok 1.004	0.944-1.064
1,1-Dichloroethane	10.28	11.60	0.886	ok 0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.60	0.655	ok 0.655	0.595-0.715
1,2-Dibromoethane	18.13	13.79	1.315	ok 1.315	1.255-1.375
1,2-Dichloroethane	13.09	11.60	1.128	ok 1.129	1.069-1.189
1,2-Dichloropropane	14.67	13.79	1.064	ok 1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294	ok 1.294	1.234-1.354
1,4-Dioxane	15.10	13.79	1.095	ok 1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.60	0.381	ok 0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.60	0.570	ok 0.570	0.510-0.630
Dibromochloromethane	17.68	13.79	1.282	ok 1.282	1.222-1.342
Dibromomethane	14.50	13.79	1.051	ok 1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.12	11.60	0.786	ok 0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.25	11.60	0.970	ok 0.970	0.910-1.030

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	15.87	13.79	1.151	ok 1.151	1.091-1.211
m-Dichlorobenzene	22.40	19.06	1.175	ok 1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208	ok 1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181	ok 1.181	1.121-1.241
trans-1,3-Dichloropropene	17.04	13.79	1.236	ok 1.235	1.175-1.295
Di-Isopropyl ether	10.09	11.60	0.870	ok 0.870	0.810-0.930
2,3-Dimethylpentane	11.81	11.60	1.018	ok 1.019	0.959-1.079
2,4-Dimethylpentane	10.37	11.60	0.894	ok 0.894	0.834-0.954
Ethanol	7.54	11.60	0.650	ok 0.651	0.591-0.711
Ethylbenzene	19.13	19.06	1.004	ok 1.004	0.944-1.064
Ethyl Acetate	11.93	11.60	1.028	ok 1.031	0.971-1.091
Ethyl Acrylate	14.66	13.79	1.063	ok 1.063	1.003-1.123
4-Ethyltoluene	21.32	19.06	1.119	ok 1.118	1.058-1.178
Freon 113	7.71	11.60	0.665	ok 0.665	0.605-0.725
Freon 114	4.74	11.60	0.409	ok 0.409	0.349-0.469
Freon 123	7.74	11.60	0.667	ok 0.668	0.608-0.728
Freon 123A	7.62	11.60	0.657	ok 0.657	0.597-0.717
Freon 142B	4.85	11.60	0.418	ok 0.418	0.358-0.478
Freon 152A	4.42	11.60	0.381	ok 0.381	0.321-0.441
Heptane	12.71	13.79	0.922	ok 0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300	ok 1.300	1.240-1.360
Hexachloroethane	23.01	19.06	1.207	ok 1.207	1.147-1.267
Hexane	9.30	11.60	0.802	ok 0.802	0.742-0.862
2-Hexanone	18.49	13.79	1.341	ok 1.341	1.281-1.401
Iodomethane	7.88	11.60	0.679	ok 0.680	0.620-0.740
Isopropylbenzene	20.56	19.06	1.079	ok 1.079	1.019-1.139
Isopropyl Alcohol	8.68	11.60	0.748	ok 0.749	0.689-0.809
p-Isopropyltoluene	22.28	19.06	1.169	ok 1.169	1.109-1.229
Methylene chloride	8.79	11.60	0.758	ok 0.758	0.698-0.818
Methyl ethyl ketone	12.24	11.60	1.055	ok 1.057	0.997-1.117
Methyl Isobutyl Ketone	16.96	13.79	1.230	ok 1.230	1.170-1.290
Methyl Tert Butyl Ether	9.36	11.60	0.807	ok 0.808	0.748-0.868
Methylmethacrylate	15.01	13.79	1.088	ok 1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326	ok 1.326	1.266-1.386
Nonane	18.95	19.06	0.994	ok 0.994	0.934-1.054
Octane	15.98	13.79	1.159	ok 1.159	1.099-1.219
Pentane	6.49	11.60	0.559	ok 0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111	ok 1.111	1.051-1.171
Propylene	4.32	11.60	0.372	ok 0.372	0.312-0.432
Styrene	20.16	19.06	1.058	ok 1.058	0.998-1.118

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15 Reporting this level
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	12.11	11.60	1.044 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.20	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.25	19.06	1.115 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.33	13.79	1.257 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.83	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.45	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.43	19.06	1.124 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.54	11.60	0.822 ok	0.823	0.763-0.883
Tetrachloroethylene	17.04	13.79	1.236 ok	1.235	1.175-1.295
Tetrahydrofuran	12.02	11.60	1.036 ok	1.038	0.978-1.098
Toluene	16.32	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.77	13.79	0.999 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.48	11.60	0.559 ok	0.559	0.499-0.619
Vinyl chloride	5.08	11.60	0.438 ok	0.437	0.377-0.497
Vinyl Acetate	10.73	11.60	0.925 ok	0.926	0.866-0.986
m,p-Xylene	19.38	19.06	1.017 ok	1.016	0.956-1.076
o-Xylene	20.08	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.60 ok	11.60	11.27-11.93	128439	ok 122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	443239	ok 419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	185970	ok 188478	113087-263869

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
Acetone	8.88	11.60	0.766	ok 0.766	0.706-0.826
Acrolein	8.29	11.60	0.715	ok 0.715	0.655-0.775
Acrylonitrile	10.33	11.60	0.891	ok 0.891	0.831-0.951
Acetonitrile	6.48	11.60	0.559	ok 0.559	0.499-0.619
1,3-Butadiene	5.13	11.60	0.442	ok 0.443	0.383-0.503
Benzene	12.75	11.60	1.099	ok 1.100	1.040-1.160
Bromobenzene	21.15	19.06	1.110	ok 1.109	1.049-1.169
Bromodichloromethane	14.77	13.79	1.071	ok 1.071	1.011-1.131
Bromoform	20.22	19.06	1.061	ok 1.060	1.000-1.120
Bromomethane	5.82	11.60	0.502	ok 0.503	0.443-0.563
Bromoethene	6.40	11.60	0.552	ok 0.552	0.492-0.612
n-Butane	4.95	11.60	0.427	ok 0.427	0.367-0.487
Benzyl Chloride	22.80	19.06	1.196	ok 1.196	1.136-1.256
n-Butylbenzene	22.81	19.06	1.197	ok 1.197	1.137-1.257
sec-Butylbenzene	22.11	19.06	1.160	ok 1.160	1.100-1.220
tert-Butylbenzene	21.88	19.06	1.148	ok 1.148	1.088-1.208
Carbon disulfide	7.65	11.60	0.659	ok 0.659	0.599-0.719
Chlorobenzene	19.10	19.06	1.002	ok 1.002	0.942-1.062
Chlorodifluoromethane	4.50	11.60	0.388	ok 0.388	0.328-0.448
Chloroethane	6.14	11.60	0.529	ok 0.530	0.470-0.590
Chlorotrifluoroethene	4.37	11.60	0.377	ok 0.377	0.317-0.437
Chloroform	11.73	11.60	1.011	ok 1.011	0.951-1.071
Chloromethane	4.84	11.60	0.417	ok 0.418	0.358-0.478
3-Chloropropene	8.58	11.60	0.740	ok 0.740	0.680-0.800
2-Chlorotoluene	21.40	19.06	1.123	ok 1.122	1.062-1.182
Carbon tetrachloride	12.00	11.60	1.034	ok 1.035	0.975-1.095
Cyclohexane	11.65	11.60	1.004	ok 1.004	0.944-1.064
1,1-Dichloroethane	10.28	11.60	0.886	ok 0.886	0.826-0.946
1,1-Dichloroethylene	7.60	11.60	0.655	ok 0.655	0.595-0.715
1,2-Dibromoethane	18.14	13.79	1.315	ok 1.315	1.255-1.375
1,2-Dichloroethane	13.09	11.60	1.128	ok 1.129	1.069-1.189
1,2-Dichloropropane	14.67	13.79	1.064	ok 1.063	1.003-1.123
1,3-Dichloropropane	17.84	13.79	1.294	ok 1.294	1.234-1.354
1,4-Dioxane	15.10	13.79	1.095	ok 1.096	1.036-1.156
Dichlorodifluoromethane	4.42	11.60	0.381	ok 0.381	0.321-0.441
Dichlorofluoromethane	6.61	11.60	0.570	ok 0.570	0.510-0.630
Dibromochloromethane	17.68	13.79	1.282	ok 1.282	1.222-1.342
Dibromomethane	14.50	13.79	1.051	ok 1.051	0.991-1.111
trans-1,2-Dichloroethylene	9.12	11.60	0.786	ok 0.786	0.726-0.846
cis-1,2-Dichloroethylene	11.25	11.60	0.970	ok 0.970	0.910-1.030

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
cis-1,3-Dichloropropene	15.87	13.79	1.151	ok 1.151	1.091-1.211
m-Dichlorobenzene	22.40	19.06	1.175	ok 1.176	1.116-1.236
o-Dichlorobenzene	23.03	19.06	1.208	ok 1.208	1.148-1.268
p-Dichlorobenzene	22.51	19.06	1.181	ok 1.181	1.121-1.241
trans-1,3-Dichloropropene	17.04	13.79	1.236	ok 1.235	1.175-1.295
Di-Isopropyl ether	10.08	11.60	0.869	ok 0.870	0.810-0.930
2,3-Dimethylpentane	11.82	11.60	1.019	ok 1.019	0.959-1.079
2,4-Dimethylpentane	10.38	11.60	0.895	ok 0.894	0.834-0.954
Ethanol	7.54	11.60	0.650	ok 0.651	0.591-0.711
Ethylbenzene	19.14	19.06	1.004	ok 1.004	0.944-1.064
Ethyl Acetate	11.93	11.60	1.028	ok 1.031	0.971-1.091
Ethyl Acrylate	14.66	13.79	1.063	ok 1.063	1.003-1.123
4-Ethyltoluene	21.33	19.06	1.119	ok 1.118	1.058-1.178
Freon 113	7.71	11.60	0.665	ok 0.665	0.605-0.725
Freon 114	4.74	11.60	0.409	ok 0.409	0.349-0.469
Freon 123	7.74	11.60	0.667	ok 0.668	0.608-0.728
Freon 123A	7.62	11.60	0.657	ok 0.657	0.597-0.717
Freon 142B	4.85	11.60	0.418	ok 0.418	0.358-0.478
Freon 152A	4.42	11.60	0.381	ok 0.381	0.321-0.441
Heptane	12.71	13.79	0.922	ok 0.921	0.861-0.981
Hexachlorobutadiene	24.78	19.06	1.300	ok 1.300	1.240-1.360
Hexachloroethane	23.02	19.06	1.208	ok 1.207	1.147-1.267
Hexane	9.30	11.60	0.802	ok 0.802	0.742-0.862
2-Hexanone	18.49	13.79	1.341	ok 1.341	1.281-1.401
Iodomethane	7.88	11.60	0.679	ok 0.680	0.620-0.740
Isopropylbenzene	20.57	19.06	1.079	ok 1.079	1.019-1.139
Isopropyl Alcohol	8.68	11.60	0.748	ok 0.749	0.689-0.809
p-Isopropyltoluene	22.29	19.06	1.169	ok 1.169	1.109-1.229
Methylene chloride	8.78	11.60	0.757	ok 0.758	0.698-0.818
Methyl ethyl ketone	12.24	11.60	1.055	ok 1.057	0.997-1.117
Methyl Isobutyl Ketone	16.96	13.79	1.230	ok 1.230	1.170-1.290
Methyl Tert Butyl Ether	9.35	11.60	0.806	ok 0.808	0.748-0.868
Methylmethacrylate	15.02	13.79	1.089	ok 1.089	1.029-1.149
Naphthalene	25.27	19.06	1.326	ok 1.326	1.266-1.386
Nonane	18.95	19.06	0.994	ok 0.994	0.934-1.054
Octane	15.99	13.79	1.160	ok 1.159	1.099-1.219
Pentane	6.48	11.60	0.559	ok 0.559	0.499-0.619
n-Propylbenzene	21.17	19.06	1.111	ok 1.111	1.051-1.171
Propylene	4.31	11.60	0.372	ok 0.372	0.312-0.432
Styrene	20.16	19.06	1.058	ok 1.058	0.998-1.118

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD26114

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W1785-IC1785	5W43592.D	04/20/21 15:47	BK	0.04	GCMS5W	TO-15
V5W1785-IC1785	5W43593.D	04/20/21 16:35	BK	0.1	GCMS5W	TO-15
V5W1785-IC1785	5W43594.D	04/20/21 17:24	BK	0.2	GCMS5W	TO-15
V5W1785-IC1785	5W43595.D	04/20/21 18:14	BK	0.5	GCMS5W	TO-15
V5W1785-IC1785	5W43596.D	04/20/21 19:02	BK	5	GCMS5W	TO-15
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	BK	10	GCMS5W	TO-15
V5W1785-IC1785	5W43598.D	04/20/21 20:42	BK	20	GCMS5W	TO-15
V5W1785-IC1785	5W43599.D	04/20/21 21:36	BK	40	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+/- .06)
1,1,1-Trichloroethane	12.11	11.60	1.044 ok	1.044	0.984-1.104
1,1,1,2-Tetrachloroethane	19.20	13.79	1.392 ok	1.392	1.332-1.452
1,1,2,2-Tetrachloroethane	21.25	19.06	1.115 ok	1.115	1.055-1.175
1,1,2-Trichloroethane	17.34	13.79	1.257 ok	1.257	1.197-1.317
1,2,4-Trichlorobenzene	24.83	19.06	1.303 ok	1.303	1.243-1.363
1,2,3-Trichloropropane	21.45	19.06	1.125 ok	1.125	1.065-1.185
1,2,3-Trimethylbenzene	22.52	19.06	1.182 ok	1.182	1.122-1.242
1,2,4-Trimethylbenzene	21.96	19.06	1.152 ok	1.152	1.092-1.212
1,3,5-Trimethylbenzene	21.44	19.06	1.125 ok	1.124	1.064-1.184
2,2,4-Trimethylpentane	12.53	13.79	0.909 ok	0.909	0.849-0.969
Tertiary Butyl Alcohol	9.54	11.60	0.822 ok	0.823	0.763-0.883
Tetrachloroethylene	17.04	13.79	1.236 ok	1.235	1.175-1.295
Tetrahydrofuran	12.02	11.60	1.036 ok	1.038	0.978-1.098
Toluene	16.32	13.79	1.183 ok	1.183	1.123-1.243
Trichloroethylene	13.77	13.79	0.999 ok	0.998	0.938-1.058
Trichlorofluoromethane	6.48	11.60	0.559 ok	0.559	0.499-0.619
Vinyl chloride	5.07	11.60	0.437 ok	0.437	0.377-0.497
Vinyl Acetate	10.73	11.60	0.925 ok	0.926	0.866-0.986
m,p-Xylene	19.39	19.06	1.017 ok	1.016	0.956-1.076
o-Xylene	20.09	19.06	1.054 ok	1.054	0.994-1.114
TVHC As Equiv Pentane	6.48	19.06	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+/- 0.33)	Area	Mean Area	Area Range (+/- 40 %)
Bromochloromethane	11.60 ok	11.60	11.27-11.93	124108 ok	122512	73507-171517
1,4-Difluorobenzene	13.79 ok	13.79	13.46-14.12	422952 ok	419316	251590-587042
Chlorobenzene-D5	19.06 ok	19.06	18.73-19.39	179598 ok	188478	113087-263869

6.7.2
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Surrogate Recovery Summary

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Method: TO-15

Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD26114-1	2W53960.D	96
JD26149-1DUP	2W53959.D	98
V2W2391-BS	2W53951.D	99
V2W2391-BSD	2W53952.D	97
V2W2391-MB	2W53954.D	97
V5W1802-SCC	5W43878.D	98
V5W1802-BS	5W43869.D	102
V5W1802-BSD	5W43870.D	103
V5W1802-MB	5W43872.D	102

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

Initial Calibration Summary

Job Number: JD26114 Sample: V2W2318-ICC2318
 Account: FLSNYNY Fleming-Lee Shue, Inc. Lab FileID: 2W52194.D
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Response Factor Report MS2W

Method : C:\msdchem\1\METHODS\M2W2318.M (RTE Integrator)
 Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 Last Update : Fri Mar 05 17:32:29 2021
 Response via : Initial Calibration

Calibration Files

0.5 =2w52198.D 0.2 =2w52199.D 40 =2w52204.D 0.04=2w52201.D
 5 =2w52202.D 10 =2w52194.D 20 =2w52203.D 0.1 =2w52200.D

Compound	0.5	0.2	40	0.04	5	10	20	0.1	Avg	%RSD
1) I BROMOCHLOROMETHANE	-----ISTD-----									
2) FREON 115									0.000	-1.00
3) FREON 152A	0.892	0.846	0.866		0.876	0.875	0.849	0.831	0.862	2.43
4) CHLORODIFLUO	0.287	0.257	0.271		0.277	0.273	0.265		0.272	3.79
5) CHLOROTRIFLU	2.208	2.247	2.238	2.290	2.263	2.222	2.184	2.124	2.222	2.31
6) DICHLORODIFL	3.183	3.427	2.779	3.383	3.209	3.213	3.019	3.284	3.187	6.51
7) PROPYLENE	0.898	0.979	0.865	1.037	0.883	0.883	0.849	1.020	0.927	7.95
8) 1-CHLORO-1,1	2.233	2.168	2.162	2.171	2.159	2.188	2.111	2.159	2.169	1.57
9) FREON 114	3.728	3.697	3.864	3.873	3.820	3.802	3.773	3.810	3.796	1.62
10) CHLOROMETHAN	0.324	0.322	0.362		0.372	0.364	0.353	0.310	0.344	7.13
11) VINYL CHLORI	1.446	1.569	1.479	1.356	1.472	1.491	1.434	1.395	1.455	4.43
12) 1,3-BUTADIEN	1.033	1.094	1.042	0.799	1.028	1.043	1.005	1.020	1.008	8.75
13) N-BUTANE	1.710	1.803	1.668	1.944	1.661	1.688	1.608	1.908	1.749	7.03
14) BROMOMETHANE	1.532	1.502	1.553	1.382	1.558	1.538	1.509	1.627	1.525	4.55
15) CHLOROETHANE	0.852	0.811	0.850	0.614	0.837	0.842	0.814	0.754	0.797	10.11
16) DICHLOROFLUO	2.851	3.013	2.935	2.996	2.947	2.909	2.826	2.919	2.925	2.20
17) ACETONITRILE	1.275	1.246	0.936	1.233	0.938	0.943	0.905	1.426	1.113	18.30
18) ACROLEIN	0.661	0.612	0.631	0.531	0.615	0.633	0.604	0.570	0.607	6.67
19) FREON 123	3.457	3.531	3.527	3.811	3.532	3.486	3.430	3.498	3.534	3.34
20) FREON 123A	1.935	2.026	1.983	1.583	1.975	1.931	1.935	2.073	1.930	7.71
21) TRICHLOROFLU	2.962	3.061	3.032	3.125	3.036	3.003	2.970	3.100	3.036	1.91
22) ISOPROPYL AL	2.614	2.865	1.826	3.326	1.933	1.947	1.818	3.024	2.419	25.19
23) ACETONE	0.909	0.953	0.636		0.628	0.640	0.612	1.066	0.778	24.61
24) PENTANE	1.118	1.229	1.074	1.202	1.071	1.085	1.048	1.223	1.131	6.60
25) IODOMETHANE	4.110	4.317	4.322	4.327	4.267	4.175	4.218	4.153	4.236	1.99
26) 1,1-DICHLORO	1.535	1.537	1.544	1.764	1.537	1.515	1.505	1.573	1.564	5.33
27) CARBON DISUL	3.097	3.096	3.900	2.960	3.378	3.594	3.735	2.934	3.337	11.11
28) ETHANOL	0.825		0.451		0.447	0.459	0.435		0.524	32.27
29) BROMOETHENE	1.549	1.634	1.546	1.258	1.535	1.505	1.497	1.466	1.499	7.28
30) ACRYLONITRIL	0.912	0.910	0.834	0.882	0.824	0.824	0.800	0.731	0.840	7.24
31) METHYLENE CH	1.497	1.725	1.365		1.375	1.362	1.346	2.025	1.528	16.86
32) 3-CHLOROPROP	0.700	0.691	0.754	0.645	0.734	0.735	0.724	0.743	0.716	4.98
33) FREON 113	2.609	2.739	2.659	2.403	2.616	2.571	2.608	2.672	2.610	3.76
34) TRANS-1,2-DI	1.526	1.579	1.541	1.490	1.545	1.513	1.535	1.334	1.508	4.95
35) TERTIARY BUT	2.306	2.443	2.074	2.130	2.486	2.499	2.277	2.545	2.345	7.55
36) METHYL TERTI	3.550	3.485	3.617	3.187	3.489	3.509	3.545	3.581	3.495	3.79
37) TETRAHYDROFU	0.717	0.732	0.740		0.736	0.731	0.741	0.570	0.710	8.77
38) HEXANE	2.179	2.260	2.132	2.336	2.161	2.171	2.129	2.237	2.201	3.26
39) VINYL ACETAT	0.301	0.300	0.428		0.356	0.391	0.408	0.281	0.352	16.76
40) 1,1-DICHLORO	2.233	2.277	2.337	1.991	2.328	2.313	2.310	2.230	2.252	5.03
41) METHYL ETHYL	0.814	0.762	0.734	0.758	0.722	0.721	0.725	0.796	0.754	4.68
42) CIS-1,2-DICH	1.601	1.699	1.681	1.599	1.679	1.651	1.655	1.843	1.676	4.57
43) DIISOPROPYL	0.606	0.691	0.641	0.583	0.629	0.633	0.633	0.595	0.626	5.34
44) ETHYL ACETAT	0.413	0.371	0.440		0.417	0.433	0.435	0.270	0.397	15.25
45) METHYL ACRYL	2.411	2.402	2.464	2.388	2.335	2.399	2.406	2.364	2.396	1.56
46) CHLOROFORM	2.638	2.638	2.659	2.661	2.665	2.651	2.669	2.802	2.673	2.00

6.9.1
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Initial Calibration Summary

Job Number: JD26114

Sample: V2W2318-ICC2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W52194.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

47)	2,4-DIMETHYL	2.606	2.637	2.594	2.403	2.600	2.634	2.591	2.614	2.585	2.92
48)	1,1,1-TRICHL	2.221	2.299	2.431	1.908	2.258	2.304	2.374	2.224	2.252	6.95
49)	CARBON TETRA	1.950	1.933	2.513	1.805	2.086	2.244	2.396	1.707	2.079	13.69
50)	1,2-DICHLORO	1.473	1.479	1.447	1.088	1.461	1.460	1.449	1.374	1.404	9.38
51)	BENZENE	4.960	5.103	4.898	5.461	4.946	4.898	4.881	5.391	5.067	4.60
52)	I 1,4-DIFLUOROBENZENE	-----ISTD-----									
53)	CYCLOHEXANE	0.441	0.423	0.434	0.375	0.436	0.434	0.427	0.399	0.421	5.41
54)	2,3-DIMETHYL	0.223	0.212	0.217	0.145	0.217	0.218	0.215	0.199	0.206	12.45
55)	TRICHLOROETH	0.408	0.404	0.399	0.386	0.401	0.399	0.397	0.417	0.401	2.23
56)	1,2-DICHLORO	0.324	0.329	0.334	0.269	0.332	0.332	0.326	0.308	0.319	6.80
57)	DIBROMOMETHA	0.411	0.457	0.429	0.449	0.425	0.418	0.423	0.444	0.432	3.71
58)	ETHYL ACRYLA	0.544	0.526	0.608	0.518	0.562	0.580	0.588	0.523	0.556	6.01
59)	BROMODICHLOR	0.491	0.465	0.574	0.444	0.529	0.548	0.559	0.458	0.508	9.88
60)	2,2,4-TRIMET	1.332	1.394	1.351	1.361	1.363	1.374	1.343	1.365	1.360	1.41
61)	1,4-DIOXANE	0.256	0.277	0.215	0.187	0.220	0.215	0.212	0.224	0.226	12.50
62)	HEPTANE	0.421	0.409	0.416	0.432	0.422	0.426	0.415	0.406	0.418	2.06
63)	METHYL METHA	0.315	0.302	0.353		0.333	0.339	0.345	0.273	0.323	8.72
64)	METHYL ISOBU	0.251	0.253	0.268	0.213	0.263	0.268	0.262	0.219	0.250	8.68
65)	CIS-1,3-DICH	0.416	0.409	0.507	0.304	0.460	0.479	0.494	0.370	0.430	16.06
66)	TOLUENE	1.213	1.277	1.171	1.579	1.189	1.172	1.160	1.262	1.253	11.05
67)	1,3-DICHLORO	0.517	0.505	0.529	0.465	0.528	0.528	0.519	0.466	0.507	5.30
68)	TRANS-1,3-DI	0.326	0.313	0.424		0.353	0.389	0.401	0.266	0.353	15.75
69)	1,1,2-TRICHL	0.325	0.322	0.330	0.257	0.332	0.332	0.327	0.311	0.317	7.95
70)	2-HEXANONE	0.382	0.390	0.340		0.328	0.337	0.334	0.383	0.356	7.62
71)	ETHYL METHAC	0.454	0.429	0.565	0.282	0.511	0.533	0.540	0.377	0.461	20.91
72)	TETRACHLORO	0.464	0.471	0.470	0.389	0.470	0.463	0.458	0.468	0.457	6.09
73)	DIBROMOCHLOR	0.469	0.437	0.627	0.387	0.537	0.576	0.592	0.390	0.502	18.70
74)	1,2-DIBROMOE	0.542	0.491	0.587	0.430	0.570	0.568	0.574	0.502	0.533	10.20
75)	OCTANE	0.566	0.587	0.577	0.583	0.573	0.578	0.560	0.588	0.576	1.69
76)	I CHLOROBENZENE-D5	-----ISTD-----									
77)	1,1,1,2-TETR	0.371	0.383	0.521		0.455	0.483	0.499	0.366	0.439	14.89
78)	CHLOROBENZEN	1.026	1.046	1.062	1.011	1.066	1.044	1.048	1.002	1.038	2.22
79)	ETHYLBENZENE	1.601	1.749	1.593	2.380	1.610	1.585	1.581	1.947	1.756	16.07
80)	M,P-XYLENE	1.182	1.280	1.182	1.808	1.185	1.161	1.164	1.414	1.297	17.25
81)	O-XYLENE	1.174	1.307	1.192	1.805	1.202	1.173	1.177	1.420	1.306	16.82
82)	STYRENE	0.953	0.971	1.019		1.003	1.000	1.015	1.015	0.997	2.51
83)	NONANE	0.638	0.628	0.642	0.483	0.639	0.640	0.635	0.655	0.620	9.01
84)	BROMOFORM	0.454	0.395	0.718		0.572	0.635	0.676	0.340	0.541	27.03
85)	1,1,2,2-TETR	0.844	0.855	0.878		0.862	0.864	0.863	0.805	0.853	2.73
86)	1,2,3-TRICHL	0.589	0.622	0.618	0.496	0.611	0.614	0.609	0.572	0.591	7.10
87)	4-BROMOFLUOR	0.614	0.620	0.615	0.620	0.623	0.619	0.620	0.617	0.619	0.50
88)	ISOPROPYLBEN	0.473	0.462	0.496		0.498	0.492	0.490	0.414	0.475	6.34
89)	BROMOBENZENE	0.746	0.752	0.769	0.681	0.778	0.769	0.763	0.779	0.755	4.23
90)	2-CHLOROTOLU	0.406	0.412	0.439	0.334	0.447	0.440	0.442	0.409	0.416	8.91
91)	N-PROPYLBENZ	0.458	0.478	0.499	0.389	0.501	0.495	0.492	0.464	0.472	7.89
92)	4-ETHYLTOLUE	1.574	1.545	1.638	1.502	1.642	1.615	1.628	1.521	1.583	3.50
93)	1,3,5-TRIMET	1.205	1.296	1.328	1.232	1.327	1.301	1.310	1.284	1.285	3.47
94)	ALPHA-METHYL	0.676	0.701	0.756	0.648	0.744	0.734	0.741	0.656	0.707	6.03
95)	TERT-BUTYLBE	0.345	0.349	0.374	0.317	0.370	0.364	0.372	0.355	0.356	5.34
96)	1,2,4-TRIMET	1.218	1.234	1.339	1.165	1.308	1.298	1.324	1.206	1.262	5.06
97)	BENZYL CHLOR	0.481	0.507	0.975	0.451	0.628	0.759	0.879	0.487	0.646	31.27
98)	M-DICHLOROBE	0.933	0.972	0.943	0.952	0.943	0.925	0.946	0.936	0.944	1.50
99)	P-DICHLOROBE	0.935	0.932	0.937	0.966	0.940	0.924	0.946	0.946	0.941	1.33
100)	O-DICHLOROBE	0.826	0.881	0.876	0.917	0.861	0.846	0.884	0.874	0.871	3.10
101)	SEC-BUTYLBEN	0.408	0.423	0.450	0.403	0.438	0.443	0.453	0.401	0.427	5.02
102)	1,2,3-TRIMET	1.170	1.203	1.273	1.181	1.263	1.244	1.287	1.213	1.229	3.55
103)	P-ISOPROPYLT	0.422	0.425	0.480	0.406	0.461	0.462	0.483	0.402	0.443	7.34
104)	N-BUTYLBENZE	0.392	0.381	0.437	0.389	0.423	0.423	0.436	0.362	0.405	6.87

Initial Calibration Summary

Job Number: JD26114

Sample: V2W2318-ICC2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W52194.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

105)	HEXACHLOROET	0.282	0.251	0.520	0.221	0.370	0.430	0.483	0.246	0.350	33.30
106)	HEXACHLOROB	0.483	0.498	0.521	0.568	0.481	0.479	0.505	0.533	0.508	6.10
107)	1,2,4-TRICHL	0.667	0.646	0.582	0.798	0.545	0.547	0.571	0.727	0.635	14.44
108)	NAPHTHALENE	1.699	1.823	1.173	2.017	1.094	1.094	1.144	1.911	1.494	27.04

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

M2W2318.M

Tue Mar 09 10:33:23 2021

GCMS2W

6.9.1

6

Initial Calibration Verification

Job Number: JD26114

Sample: V2W2318-ICV2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W52206.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52206.D
 Acq On : 5 Mar 2021 6:07 pm
 Operator : danat
 Sample : icv2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:32:41 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	108	0.00
2 T	FREON 115	0.000	0.000	0.0	0#	-1.85#
3 T	FREON 152A	0.862	0.827	4.1	102	0.00
4 T	CHLORODIFLUOROMETHANE	0.272	0.263	3.3	103	0.00
5 T	CHLOROTRIFLUOROETHENE	2.222	2.175	2.1	105	0.00
6 T	DICHLORODIFLUOROMETHANE	3.187	2.978	6.6	100	0.00
7 T	PROPYLENE	0.927	0.809	12.7	99	0.00
8 T	1-CHLORO-1,1-DIFLUOROETHANE	2.169	2.115	2.5	104	0.00
9 T	FREON 114	3.796	3.541	6.7	100	0.00
10 T	CHLOROMETHANE	0.344	0.339	1.5	100	0.00
11 T	VINYL CHLORIDE	1.455	1.375	5.5	99	0.00
12 t	1,3-BUTADIENE	1.008	0.968	4.0	100	0.00
13 T	N-BUTANE	1.749	1.546	11.6	99	0.00
14 T	BROMOMETHANE	1.525	1.425	6.6	100	0.00
15 T	CHLOROETHANE	0.797	0.790	0.9	101	0.00
16 T	DICHLOROFLUOROMETHANE	2.925	2.638	9.8	98	0.00
17 T	ACETONITRILE	1.113	0.858	22.9	98	0.00
18 T	ACROLEIN	0.607	0.562	7.4	96	0.00
19 T	FREON 123	3.534	3.441	2.6	106	0.00
20 T	FREON 123A	1.930	2.073	-7.4	116	0.00
21 T	TRICHLOROFLUOROMETHANE	3.036	2.754	9.3	99	0.00
22 T	ISOPROPYL ALCOHOL	2.419	1.806	25.3	100	0.00
23 T	ACETONE	0.778	0.621	20.2	105	0.00
24 T	PENTANE	1.131	1.042	7.9	103	0.00
25 T	IODOMETHANE	4.236	4.033	4.8	104	0.00
26 T	1,1-DICHLOROETHYLENE	1.564	1.480	5.4	105	0.00
27 T	CARBON DISULFIDE	3.337	3.776	-13.2	113	0.00
28 T	ETHANOL	0.524	0.398	24.0	93	0.00
29 T	BROMOETHENE	1.499	1.477	1.5	106	0.00
30 T	ACRYLONITRILE	0.840	0.775	7.7	101	0.00
31 T	METHYLENE CHLORIDE	1.528	1.291	15.5	102	0.00
32 T	3-CHLOROPROPENE	0.716	0.702	2.0	103	0.00
33 T	FREON 113	2.610	2.465	5.6	103	0.00
34 T	TRANS-1,2-DICHLOROETHENE	1.508	1.484	1.6	106	0.00
35 T	TERTIARY BUTYL ALCOHOL	2.345	2.101	10.4	91	0.00
36 t	METHYL TERTIARY BUTYL ETHER	3.495	3.391	3.0	104	0.00
37 T	TETRAHYDROFURAN	0.710	0.654	7.9	96	0.00
38 T	HEXANE	2.201	2.077	5.6	103	0.00

Initial Calibration Verification

Job Number: JD26114

Sample: V2W2318-ICV2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W52206.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

39	T	VINYL ACETATE	0.352	0.385	-9.4	106	0.00
40	T	1,1-DICHLOROETHANE	2.252	2.202	2.2	103	0.00
41	T	METHYL ETHYL KETONE	0.754	0.701	7.0	105	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.676	1.564	6.7	102	0.00
43	T	DIISOPROPYL ETHER	0.626	0.605	3.4	103	0.00
44	T	ETHYL ACETATE	0.397	0.457	-15.1	114	0.00
45	T	METHYL ACRYLATE	2.396	2.345	2.1	105	0.00
46	T	CHLOROFORM	2.673	2.506	6.2	102	0.00
47	T	2,4-DIMETHYLPENTANE	2.585	2.440	5.6	100	0.00
48	T	1,1,1-TRICHLOROETHANE	2.252	2.238	0.6	105	0.00
49	T	CARBON TETRACHLORIDE	2.079	2.218	-6.7	107	0.00
50	T	1,2-DICHLOROETHANE	1.404	1.361	3.1	100	0.00
51	t	BENZENE	5.067	4.625	8.7	102	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	108	0.00
53	T	CYCLOHEXANE	0.421	0.408	3.1	102	0.00
54	T	2,3-DIMETHYLPENTANE	0.206	0.203	1.5	100	0.00
55	T	TRICHLOROETHENE	0.401	0.376	6.2	102	0.00
56	T	1,2-DICHLOROPROPANE	0.319	0.313	1.9	102	0.00
57	T	DIBROMOMETHANE	0.432	0.402	6.9	104	0.00
58	T	ETHYL ACRYLATE	0.556	0.566	-1.8	106	0.00
59	T	BROMODICHLOROMETHANE	0.508	0.519	-2.2	103	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.360	1.273	6.4	100	0.00
61	T	1,4-DIOXANE	0.226	0.189	16.4	96	0.00
62	T	HEPTANE	0.418	0.391	6.5	99	0.00
63	T	METHYL METHACRYLATE	0.323	0.320	0.9	102	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.247	1.2	100	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.430	0.493	-14.7	112	0.00
66	T	TOLUENE	1.253	1.105	11.8	102	0.00
67	T	1,3-DICHLOROPROPANE	0.507	0.501	1.2	103	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.353	0.381	-7.9	106	0.00
69	T	1,1,2-TRICHLOROETHANE	0.317	0.310	2.2	101	0.00
70	T	2-HEXANONE	0.356	0.323	9.3	104	0.00
71	T	ETHYL METHACRYLATE	0.461	0.519	-12.6	105	0.00
72	T	TETRACHLOROETHENE	0.457	0.441	3.5	103	0.00
73	T	DIBROMOCHLOROMETHANE	0.502	0.546	-8.8	103	0.00
74	T	1,2-DIBROMOETHANE	0.533	0.542	-1.7	104	0.00
75	T	OCTANE	0.576	0.532	7.6	100	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	108	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.439	0.458	-4.3	103	0.00
78	T	CHLOROBENZENE	1.038	0.991	4.5	103	0.00
79	t	ETHYLBENZENE	1.756	1.510	14.0	103	0.00
80	t	M,P-XYLENE	1.297	1.106	14.7	103	0.00
81	t	O-XYLENE	1.306	1.116	14.5	103	0.00
82	T	STYRENE	0.997	0.951	4.6	103	0.00
83	T	NONANE	0.620	0.606	2.3	103	0.00
84	T	BROMOFORM	0.541	0.593	-9.6	101	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.853	0.820	3.9	103	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.591	0.584	1.2	103	0.00
87	S	4-BROMOFLUOROBENZENE	0.619	0.616	0.5	108	0.00
88	T	ISOPROPYLBENZENE	0.475	0.474	0.2	104	0.00
89	T	BROMOBENZENE	0.755	0.723	4.2	102	0.00
90	T	2-CHLOROTOLUENE	0.416	0.424	-1.9	105	0.00
91	T	N-PROPYLBENZENE	0.472	0.474	-0.4	104	0.00
92	T	4-ETHYLTOLUENE	1.583	1.604	-1.3	108	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.285	1.279	0.5	107	0.00
94	T	ALPHA-METHYLSTYRENE	0.707	0.699	1.1	103	0.00
95	T	TERT-BUTYLBENZENE	0.356	0.356	0.0	106	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.262	1.279	-1.3	107	0.00

Initial Calibration Verification

Job Number: JD26114

Sample: V2W2318-ICV2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W52206.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

97	T	BENZYL CHLORIDE	0.646	0.757	-17.2	108	0.00
98	T	M-DICHLOROBENZENE	0.944	0.906	4.0	106	0.00
99	T	P-DICHLOROBENZENE	0.941	0.905	3.8	106	0.00
100	T	O-DICHLOROBENZENE	0.871	0.834	4.2	107	0.00
101	T	SEC-BUTYLBENZENE	0.427	0.428	-0.2	105	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.229	1.213	1.3	106	0.00
103	T	P-ISOPROPYLTOLUENE	0.443	0.465	-5.0	109	0.00
104	T	N-BUTYLBENZENE	0.405	0.425	-4.9	109	0.00
105	T	HEXACHLOROETHANE	0.350	0.442	-26.3	111	0.00
106	T	HEXACHLOROBUTADIENE	0.508	0.562	-10.6	127	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.635	0.610	3.9	121	0.00
108	T	NAPHTHALENE	1.494	1.272	14.9	126	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

M2W2318.M Tue Mar 09 10:33:03 2021 GCMS2W

6.9.2
6

Continuing Calibration Summary

Job Number: JD26114

Sample: V2W2391-CC2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W53950.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53950.D
 Acq On : 9 Jun 2021 8:22 am
 Operator : thomash
 Sample : cc2318-10
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:01 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	79	0.02
2 T	FREON 115	0.000	0.000	0.0	0#	-1.85#
3 T	FREON 152A	0.862	0.828	3.9	75	0.02
4 T	CHLORODIFLUOROMETHANE	0.272	0.265	2.6	77	0.01
5 T	CHLOROTRIFLUOROETHENE	2.222	2.007	9.7	72	0.02
6 T	DICHLORODIFLUOROMETHANE	3.187	3.718	-16.7	92	0.02
7 T	PROPYLENE	0.927	0.964	-4.0	87	0.02
8 T	1-CHLORO-1,1-DIFLUOROETHANE	2.169	2.149	0.9	78	0.02
9 T	FREON 114	3.796	3.606	5.0	75	0.02
10 T	CHLOROMETHANE	0.344	0.370	-7.6	81	0.02
11 T	VINYL CHLORIDE	1.455	1.426	2.0	76	0.02
12 t	1,3-BUTADIENE	1.008	1.039	-3.1	79	0.02
13 T	N-BUTANE	1.749	1.814	-3.7	85	0.02
14 T	BROMOMETHANE	1.525	1.387	9.0	72	0.02
15 T	CHLOROETHANE	0.797	0.776	2.6	73	0.02
16 T	DICHLOROFLUOROMETHANE	2.925	2.738	6.4	75	0.02
17 T	ACETONITRILE	1.113	1.062	4.6	90	0.03
18 T	ACROLEIN	0.607	0.629	-3.6	79	0.02
19 T	FREON 123	3.534	3.125	11.6	71	0.02
20 T	FREON 123A	1.930	1.752	9.2	72	0.02
21 T	TRICHLOROFLUOROMETHANE	3.036	2.874	5.3	76	0.02
22 T	ISOPROPYL ALCOHOL	2.419	1.999	17.4	82	0.02
23 T	ACETONE	0.778	0.627	19.4	78	0.02
24 T	PENTANE	1.131	1.117	1.2	82	0.02
25 T	IODOMETHANE	4.236	3.777	10.8	72	0.02
26 T	1,1-DICHLOROETHYLENE	1.564	1.351	13.6	71	0.02
27 T	CARBON DISULFIDE	3.337	3.592	-7.6	79	0.02
28 T	ETHANOL	0.524	0.517	1.3	89	0.02
29 T	BROMOETHENE	1.499	1.368	8.7	72	0.03
30 T	ACRYLONITRILE	0.840	0.812	3.3	78	0.02
31 T	METHYLENE CHLORIDE	1.528	1.261	17.5	74	0.02
32 T	3-CHLOROPROPENE	0.716	0.655	8.5	71	0.02
33 T	FREON 113	2.610	2.270	13.0	70	0.02
34 T	TRANS-1,2-DICHLOROETHENE	1.508	1.277	15.3	67	0.02
35 T	TERTIARY BUTYL ALCOHOL	2.345	2.216	5.5	70	0.02
36 t	METHYL TERTIARY BUTYL ETHER	3.495	2.963	15.2	67	0.02
37 T	TETRAHYDROFURAN	0.710	0.636	10.4	69	0.02
38 T	HEXANE	2.201	1.986	9.8	73	0.02

Continuing Calibration Summary

Job Number: JD26114

Sample: V2W2391-CC2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W53950.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

39	T	VINYL ACETATE	0.352	0.352	0.0	72	0.02
40	T	1,1-DICHLOROETHANE	2.252	2.059	8.6	71	0.02
41	T	METHYL ETHYL KETONE	0.754	0.646	14.3	71	0.02
42	T	CIS-1,2-DICHLOROETHENE	1.676	1.425	15.0	69	0.02
43	T	DIISOPROPYL ETHER	0.626	0.577	7.8	72	0.02
44	T	ETHYL ACETATE	0.397	0.397	0.0	73	0.02
45	T	METHYL ACRYLATE	2.396	2.325	3.0	77	0.02
46	T	CHLOROFORM	2.673	2.439	8.8	73	0.02
47	T	2,4-DIMETHYLPENTANE	2.585	2.314	10.5	70	0.01
48	T	1,1,1-TRICHLOROETHANE	2.252	2.245	0.3	77	0.01
49	T	CARBON TETRACHLORIDE	2.079	2.346	-12.8	83	0.01
50	T	1,2-DICHLOROETHANE	1.404	1.405	-0.1	76	0.02
51	t	BENZENE	5.067	4.196	17.2	68	0.01
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	79	0.01
53	T	CYCLOHEXANE	0.421	0.359	14.7	66	0.01
54	T	2,3-DIMETHYLPENTANE	0.206	0.187	9.2	68	0.01
55	T	TRICHLOROETHENE	0.401	0.343	14.5	68	0.00
56	T	1,2-DICHLOROPROPANE	0.319	0.293	8.2	70	0.01
57	T	DIBROMOMETHANE	0.432	0.361	16.4	68	0.02
58	T	ETHYL ACRYLATE	0.556	0.556	0.0	76	0.01
59	T	BROMODICHLOROMETHANE	0.508	0.530	-4.3	77	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.360	1.235	9.2	71	0.00
61	T	1,4-DIOXANE	0.226	0.185	18.1	69	0.00
62	T	HEPTANE	0.418	0.416	0.5	78	0.02
63	T	METHYL METHACRYLATE	0.323	0.304	5.9	71	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.240	4.0	71	0.01
65	T	CIS-1,3-DICHLOROPROPENE	0.430	0.433	-0.7	72	0.01
66	T	TOLUENE	1.253	1.000	20.2	68	0.00
67	T	1,3-DICHLOROPROPANE	0.507	0.468	7.7	70	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.353	0.362	-2.5	74	0.00
69	T	1,1,2-TRICHLOROETHANE	0.317	0.294	7.3	70	0.01
70	T	2-HEXANONE	0.356	0.318	10.7	75	0.00
71	T	ETHYL METHACRYLATE	0.461	0.479	-3.9	71	0.00
72	T	TETRACHLOROETHENE	0.457	0.394	13.8	68	0.00
73	T	DIBROMOCHLOROMETHANE	0.502	0.554	-10.4	76	0.00
74	T	1,2-DIBROMOETHANE	0.533	0.505	5.3	71	0.00
75	T	OCTANE	0.576	0.577	-0.2	79	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	80	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.439	0.450	-2.5	74	0.00
78	T	CHLOROBENZENE	1.038	0.887	14.5	68	0.00
79	t	ETHYLBENZENE	1.756	1.370	22.0	69	0.00
80	t	M,P-XYLENE	1.297	1.027	20.8	70	0.00
81	t	O-XYLENE	1.306	1.053	19.4	71	0.00
82	T	STYRENE	0.997	0.871	12.6	69	0.00
83	T	NONANE	0.620	0.668	-7.7	83	0.00
84	T	BROMOFORM	0.541	0.650	-20.1	82	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.853	0.813	4.7	75	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.591	0.567	4.1	74	0.00
87	S	4-BROMOFLUOROBENZENE	0.619	0.611	1.3	79	0.00
88	T	ISOPROPYLBENZENE	0.475	0.426	10.3	69	0.00
89	T	BROMOBENZENE	0.755	0.699	7.4	72	0.00
90	T	2-CHLOROTOLUENE	0.416	0.388	6.7	70	0.00
91	T	N-PROPYLBENZENE	0.472	0.433	8.3	70	0.00
92	T	4-ETHYLTOLUENE	1.583	1.475	6.8	73	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.285	1.207	6.1	74	0.00
94	T	ALPHA-METHYLSTYRENE	0.707	0.680	3.8	74	0.00
95	T	TERT-BUTYLBENZENE	0.356	0.329	7.6	72	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.262	1.243	1.5	76	0.00

Continuing Calibration Summary

Job Number: JD26114

Sample: V2W2391-CC2318

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2W53950.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

97	T	BENZYL CHLORIDE	0.646	0.800	-23.8	84	0.00
98	T	M-DICHLOROBENZENE	0.944	0.885	6.2	76	0.00
99	T	P-DICHLOROBENZENE	0.941	0.878	6.7	76	0.00
100	T	O-DICHLOROBENZENE	0.871	0.841	3.4	79	0.00
101	T	SEC-BUTYLBENZENE	0.427	0.403	5.6	72	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.229	1.223	0.5	78	0.00
103	T	P-ISOPROPYLTOLUENE	0.443	0.439	0.9	76	0.00
104	T	N-BUTYLBENZENE	0.405	0.406	-0.2	76	0.00
105	T	HEXACHLOROETHANE	0.350	0.522	-49.1#	96	0.01
106	T	HEXACHLOROBUTADIENE	0.508	0.567	-11.6	94	0.03
107	T	1,2,4-TRICHLOROBENZENE	0.635	0.619	2.5	90	0.02
108	T	NAPHTHALENE	1.494	1.270	15.0	92	0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

M2W2318.M Wed Jun 09 10:20:48 2021 GCMS2W

Initial Calibration Summary

Job Number: JD26114 Sample: V5W1785-ICC1785
 Account: FLSNYNY Fleming-Lee Shue, Inc. Lab FileID: 5W43597.D
 Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Response Factor Report Air5w

Method : C:\msdchem\1\methods\m5w1785.M (RTE Integrator)
 Title : TO-15 Full Scan Mode
 Last Update : Wed Apr 21 16:33:49 2021
 Response via : Initial Calibration

Calibration Files

0.04=5w43592.D 0.1 =5w43593.D 0.2 =5w43594.D 0.5 =5w43595.D
 5 =5w43596.D 10 =5w43597.D 20 =5w43598.D 40 =5w43599.D

Compound	0.04	0.1	0.2	0.5	5	10	20	40	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----									
2) Freon 152A	0.421	0.607	0.580	0.578	0.532	0.467	0.452	0.447	0.510	14.14
3) Chlorodifluo	0.125	0.196	0.219	0.207	0.182	0.178	0.180	0.184	0.184	16.32
4) Propene		0.643	0.561	0.486	0.427	0.422	0.427	0.494	0.494	18.27
5) Chlorotriflu	1.885	1.874	1.655	1.623	1.505	1.365	1.339	1.343	1.574	14.26
6) Dichlorodifl	3.221	3.092	2.653	2.563	2.472	2.177	2.128	2.160	2.558	16.38
7) 1-Chloro-1,1	1.857	1.912	1.713	1.621	1.511	1.362	1.311	1.303	1.574	15.33
8) Chloromethan	0.943	0.860	0.789	0.749	0.698	0.621	0.588	0.568	0.727	18.39
9) Dichlorotetr	3.549	3.434	2.976	2.900	2.714	2.444	2.335	2.294	2.831	16.90
10) Vinyl Chlori	0.981	1.067	1.014	0.965	0.903	0.797	0.769	0.763	0.907	13.01
11) 1,3-Butadien	0.579	0.751	0.702	0.639	0.616	0.545	0.518	0.474	0.603	15.48
12) n-Butane			0.099	0.119	0.126	0.113	0.109	0.110	0.113	8.04
13) Bromomethane	1.839	1.611	1.382	1.266	1.150	1.028	0.992	0.974	1.280	24.53
14) Chloroethane	0.405	0.659	0.530	0.508	0.468	0.411	0.399	0.388	0.471	19.70
15) Dichlorofluo	3.063	3.246	2.771	2.533	2.318	2.042	2.024	1.981	2.497	19.66
16) Acetonitrile			1.039	0.881	0.741	0.627	0.613	0.565	0.744	24.64
17) Freon 123	3.435	3.448	2.839	2.759	2.497	2.257	2.105	1.980	2.665	21.14
18) Freon 123A	1.626	1.596	1.497	1.427	1.334	1.239	1.181	1.174	1.384	12.99
19) Bromoethene	1.436	1.489	1.302	1.251	1.183	1.076	1.038	1.038	1.227	14.29
20) Acrolein	0.371	0.552	0.477	0.455	0.402	0.349	0.345	0.337	0.411	18.75
21) Trichloroflu	3.593	3.605	3.054	2.878	2.702	2.422	2.384	2.329	2.871	17.93
22) Acetone			0.579	0.540	0.421	0.364	0.359	0.355	0.436	22.68
23) Pentane		0.333	0.279	0.268	0.249	0.215	0.211	0.196	0.250	19.08
24) Iodomethane	4.571	4.386	3.878	3.766	3.557	3.320	3.174	3.045	3.712	14.88
25) Isopropyl Al			0.410	0.379	0.277	0.239	0.238	0.227	0.295	26.99
26) 1,1-Dichloro	1.945	2.142	1.773	1.715	1.552	1.410	1.342	1.291	1.646	18.36
27) Freon 113	3.219	3.243	2.876	2.755	2.517	2.309	2.186	2.070	2.647	17.04
28) Methylene Ch		1.760	1.387	1.196	0.999	0.896	0.870	0.840	1.135	29.88
29) Carbon Disul	4.242	4.115	3.421	3.337	3.031	2.745	2.585	2.508	3.248	20.37
30) Ethanol				0.685	0.404	0.354	0.348	0.340	0.426	34.42
31) Acrylonitril	0.849	1.247	0.904	0.929	0.769	0.659	0.657	0.630	0.830	24.60
32) 3-Chloroprop	0.463	0.609	0.522	0.564	0.523	0.458	0.454	0.444	0.505	11.90
33) trans-1,2-Di	1.921	2.098	1.628	1.576	1.442	1.257	1.223	1.199	1.543	21.53
34) tert-Butyl A	2.776	2.906	2.262	2.181	1.994	1.744	1.746	1.674	2.160	21.82
35) Methyl tert-	4.859	3.910	3.211	3.212	2.773	2.451	2.407	2.343	3.146	27.77
36) Vinyl Acetat	3.012	3.988	3.010	2.880	2.517	2.111	2.183	2.018	2.715	24.09
37) 1,1-Dichloro	2.468	2.637	2.136	2.067	1.863	1.600	1.567	1.489	1.978	21.55
38) 2-Butanone	0.170	0.518	0.524	0.551	0.514	0.445	0.443	0.427	0.449	27.08
39) Hexane	0.887	1.030	0.870	0.937	0.828	0.712	0.695	0.667	0.828	15.46
40) cis-1,2-Dich	1.731	2.009	1.627	1.606	1.448	1.232	1.218	1.152	1.503	19.73
41) Di-isopropyl	0.971	1.008	0.915	0.916	0.857	0.768	0.750	0.734	0.865	12.11
42) Ethyl Acetat		0.359	0.331	0.354	0.341	0.290	0.292	0.276	0.320	10.58
43) Methyl Acryl	2.035	2.521	1.980	2.067	1.851	1.552	1.571	1.487	1.883	18.38
44) Chloroform	2.938	2.983	2.600	2.481	2.342	2.016	1.966	1.896	2.403	17.72
45) 2,4-Dimethyl	2.366	2.561	2.078	2.057	1.814	1.548	1.517	1.440	1.923	21.49
46) Tetrahydrofu	0.353	0.608	0.539	0.555	0.537	0.467	0.461	0.427	0.494	16.53

6.9.4
6

Initial Calibration Summary

Job Number: JD26114

Sample: V5W1785-ICC1785

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43597.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

47)	1,1,1-Trichl	2.802	2.763	2.465	2.329	2.241	1.973	1.915	1.850	2.292	16.11
48)	1,2-Dichloro	1.478	1.731	1.433	1.425	1.275	1.075	1.068	1.009	1.312	19.10
49)	Benzene			4.304	3.767	3.360	2.937	2.896	2.745	3.335	18.12
50)	Carbon Tetra	2.998	2.799	2.482	2.447	2.437	2.221	2.161	2.115	2.457	12.60
51)	Cyclohexane	2.089	2.283	1.822	1.743	1.543	1.303	1.298	1.242	1.665	23.28
52)	2,3-Dimethyl	0.525	0.811	0.730	0.768	0.714	0.618	0.605	0.582	0.669	15.03
53)	I 1,4-Difluorobenzene	-----ISTD-----									
54)	2,2,4-Trimet	1.881	2.140	1.651	1.661	1.472	1.212	1.182	1.108	1.538	23.69
55)	Heptane	0.380	0.407	0.327	0.324	0.310	0.270	0.263	0.253	0.317	17.48
56)	Trichloroeth	0.406	0.347	0.307	0.302	0.293	0.269	0.262	0.254	0.305	16.55
57)	1,2-Dichloro	0.436	0.503	0.418	0.423	0.396	0.337	0.322	0.298	0.391	17.42
58)	Dibromometha	0.654	0.445	0.454	0.383	0.446	0.449	0.432	0.446	0.464	17.33
59)	Ethyl Acryla	0.650	0.945	0.779	0.801	0.741	0.624	0.594	0.541	0.709	18.64
60)	Methyl Metha	0.336	0.389	0.353	0.362	0.361	0.323	0.312	0.295	0.341	9.02
61)	1,4-Dioxane	0.306	0.290	0.280	0.258	0.228	0.213	0.202	0.197	0.247	17.22
62)	Bromodichlor	0.939	0.923	0.785	0.763	0.745	0.666	0.635	0.622	0.760	15.96
63)	cis-1,3-Dich	0.931	0.813	0.652	0.607	0.601	0.544	0.514	0.494	0.644	23.74
64)	4-Methyl-2-p	0.311	0.369	0.317	0.329	0.315	0.288	0.270	0.251	0.306	11.96
65)	trans-1,3-Di	0.857	0.749	0.615	0.567	0.538	0.486	0.462	0.427	0.588	25.23
66)	Toluene	1.988	1.528	1.317	1.136	1.142	1.071	1.035	1.005	1.278	26.19
67)	1,1,2-Trichl	0.546	0.505	0.443	0.393	0.420	0.411	0.384	0.378	0.435	13.94
68)	1,3-Dichloro	0.689	0.682	0.615	0.565	0.563	0.513	0.462	0.446	0.567	16.18
69)	2-Hexanone	0.977	1.034	0.821	0.869	0.725	0.670	0.564	0.498	0.770	24.73
70)	Ethyl Methac	0.616	0.605	0.572	0.565	0.572	0.547	0.483	0.462	0.553	9.83
71)	Dibromochlor	0.935	0.806	0.763	0.682	0.786	0.796	0.756	0.747	0.784	9.18
72)	Tetrachloroe	0.731	0.572	0.598	0.495	0.569	0.587	0.587	0.611	0.594	11.05
73)	1,2-Dibromoe	0.860	0.743	0.696	0.613	0.668	0.666	0.619	0.604	0.684	12.45
74)	Octane			0.882	0.880	0.788	0.609	0.556	0.492	0.701	24.31
75)	1,1,1,2-Tetr	0.650	0.518	0.507	0.445	0.513	0.519	0.499	0.495	0.518	11.22
76)	I Chlorobenzene-d5	-----ISTD-----									
77)	Chlorobenzen	2.592	2.025	2.005	1.755	1.988	1.980	2.023	1.956	2.041	11.72
78)	Ethylbenzene		4.060	3.652	3.137	3.243	3.093	3.049	2.902	3.305	12.33
79)	m,p-Xylene		3.042	2.701	2.329	2.430	2.294	2.238	2.053	2.441	13.54
80)	Styrene	2.307	1.692	1.726	1.496	1.876	1.786	1.852	1.810	1.818	12.70
81)	Nonane	2.592	2.232	1.966	2.027	1.803	1.525	1.240	1.129	1.814	27.40
82)	o-Xylene		2.998	2.694	2.388	2.517	2.331	2.312	2.254	2.499	10.62
83)	Bromoform	1.778	1.356	1.479	1.242	1.734	1.693	1.872	1.854	1.626	14.59
84)	1,1,2,2-Tetr	2.662	2.232	2.037	1.957	2.180	1.913	1.908	1.794	2.085	13.17
85)	1,2,3-Trichl	1.977	1.676	1.563	1.562	1.518	1.351	1.321	1.184	1.519	16.09
86)	Isopropylben	4.130	3.314	3.261	2.960	3.630	3.295	3.332	3.194	3.389	10.36
87)	Bromobenzene	1.201	0.881	0.938	0.849	1.241	1.202	1.246	1.224	1.098	15.93
88)	2-Chlorotolu	0.901	0.754	0.740	0.684	0.956	0.877	0.904	0.865	0.835	11.50
89)	n-Propylbenz	0.965	0.784	0.779	0.727	0.977	0.917	0.946	0.903	0.875	11.08
90)	4-Bromofluor	1.138	1.176	1.169	1.180	1.305	1.247	1.336	1.348	1.238	6.71
91)	4-Ethyltolue	3.528	2.993	2.962	2.776	3.511	3.199	3.242	3.053	3.158	8.41
92)	1,3,5-Trimet	3.082	2.488	2.372	2.265	2.832	2.571	2.609	2.386	2.576	10.42
93)	alpha-Methyl	1.309	1.105	1.080	1.008	1.490	1.405	1.443	1.407	1.281	14.70
94)	tert-Butylbe	0.616	0.499	0.513	0.460	0.659	0.616	0.631	0.613	0.576	12.76
95)	1,2,4-Trimet	2.650	2.299	2.208	2.336	2.764	2.538	2.561	2.443	2.475	7.61
96)	1,3-Dichloro	1.575	1.307	1.375	1.482	1.967	1.852	1.924	1.884	1.671	15.92
97)	1,2,3-trimet	2.667	2.270	2.202	2.420	2.770	2.497	2.529	2.373	2.466	7.76
98)	Benzyl Chlor	0.374	0.385	0.383	0.427	0.537	0.515	0.522	0.487	0.454	15.17
99)	1,4-Dichloro	1.545	1.264	1.294	1.482	1.914	1.809	1.865	1.764	1.617	15.86
100)	sec-Butylben	0.860	0.651	0.620	0.653	0.821	0.759	0.784	0.747	0.737	11.82
101)	p-Isopropylt	0.777	0.691	0.661	0.723	0.913	0.846	0.863	0.833	0.788	11.37
102)	1,2-Dichloro	1.642	1.287	1.305	1.498	1.892	1.791	1.816	1.654	1.611	14.24
103)	n-Butylbenze	0.774	0.582	0.613	0.646	0.790	0.749	0.768	0.716	0.705	11.39
104)	Hexachloroet	0.842	0.798	0.803	0.921	1.190	1.130	1.176	1.113	0.997	17.29

Initial Calibration Summary

Job Number: JD26114

Sample: V5W1785-ICC1785

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43597.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

105)	1,2,4-Trichl	0.508	0.631	0.638	0.851	0.906	1.020	1.128	0.812	27.99	
106)	Naphthalene	1.102	1.198	1.179	1.409	1.519	1.712	1.959	1.440	21.79	
107)	Hexachlorobu	1.237	0.728	0.994	1.031	1.280	1.227	1.313	1.334	1.143	18.34
108)	I Bromochloromethane (A -----ISTD-----										
109)	TVHC as equi	0.878	1.048	0.925	1.048	0.978	0.862	0.857	0.811	0.926	E1 9.73

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

m5w1785.M

Wed Apr 21 16:35:44 2021

Initial Calibration Verification

Job Number: JD26114

Sample: V5W1785-ICV1785

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43603.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w43603.D Vial: 4
 Acq On : 21 Apr 2021 11:17 am Operator: benk
 Sample : icv1785-10 Inst : Air5w
 Misc : ms49231,v5w1785,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1785.M (RTE Integrator)
 Title : TO-15 Full Scan Mode
 Last Update : Wed Apr 21 16:33:49 2021
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I Bromochloromethane	1.000	1.000	0.0	105	0.00	11.59
2	Freon 152A	0.510	0.502	1.6	112	0.00	4.42
3	Chlorodifluoromethane	0.184	0.196	-6.5	112	0.00	4.49
4	Propene	0.494	0.467	5.5	114	-0.01	4.31
5	Chlorotrifluoroethene	1.574	1.472	6.5	113	0.00	4.36
6	Dichlorodifluoromethane	2.558	2.269	11.3	109	0.00	4.41
7	1-Chloro-1,1-difluoroetha	1.574	1.473	6.4	113	0.00	4.84
8	Chloromethane	0.727	0.657	9.6	111	-0.01	4.84
9	Dichlorotetrafluoroethane	2.831	2.506	11.5	107	-0.01	4.73
10	Vinyl Chloride	0.907	0.851	6.2	112	0.00	5.06
11	1,3-Butadiene	0.603	0.580	3.8	111	0.00	5.13
12	n-Butane	0.113	0.121	-7.1	112	0.00	4.95
13	Bromomethane	1.280	1.056	17.5	107	0.00	5.82
14	Chloroethane	0.471	0.449	4.7	114	-0.01	6.13
15	Dichlorofluoromethane	2.497	2.122	15.0	109	0.00	6.60
16	Acetonitrile	0.744	0.718	3.5	120	0.00	6.48
17	Freon 123	2.665	2.443	8.3	113	0.00	7.74
18	Freon 123A	1.384	1.398	-1.0	118	0.00	7.61
19	Bromoethene	1.227	1.142	6.9	111	0.00	6.39
20	Acrolein	0.411	0.375	8.8	113	0.00	8.28
21	Trichlorofluoromethane	2.871	2.477	13.7	107	-0.01	6.47
22	Acetone	0.436	0.387	11.2	111	0.00	8.87
23	Pentane	0.250	0.243	2.8	118	0.00	6.48
24	Iodomethane	3.712	3.288	11.4	104	-0.01	7.87
25	Isopropyl Alcohol	0.295	0.246	16.6	108	0.00	8.67
26	1,1-Dichloroethene	1.646	1.543	6.3	114	0.00	7.59
27	Freon 113	2.647	2.368	10.5	107	-0.01	7.70
28	Methylene Chloride	1.135	0.924	18.6	108	0.00	8.78
29	Carbon Disulfide	3.248	3.140	3.3	120	-0.01	7.63
30	Ethanol	0.426	0.319	25.1	94	0.00	7.53
31	Acrylonitrile	0.830	0.675	18.7	107	0.00	10.33
32	3-Chloropropene	0.505	0.484	4.2	110	0.00	8.58
33	trans-1,2-Dichloroethene	1.543	1.367	11.4	114	0.00	9.11
34	tert-Butyl Alcohol	2.160	1.580	26.9	95	0.00	9.52
35	Methyl tert-Butyl Ether	3.146	2.505	20.4	107	-0.01	9.35
36	Vinyl Acetate	2.715	2.241	17.5	111	0.00	10.72
37	1,1-Dichloroethane	1.978	1.651	16.5	108	0.00	10.26
38	2-Butanone	0.449	0.438	2.4	103	0.00	12.23
39	Hexane	0.828	0.766	7.5	112	0.00	9.29
40	cis-1,2-Dichloroethene	1.503	1.250	16.8	106	0.00	11.24
41	Di-isopropyl Ether	0.865	0.761	12.0	104	0.00	10.07
42	Ethyl Acetate	0.320	0.313	2.2	113	0.00	11.92

Initial Calibration Verification

Job Number: JD26114

Sample: V5W1785-ICV1785

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43603.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

43	Methyl Acrylate	1.883	1.573	16.5	106	0.00	11.93
44	Chloroform	2.403	2.025	15.7	105	0.00	11.72
45	2,4-Dimethylpentane	1.923	1.589	17.4	107	0.00	10.37
46	Tetrahydrofuran	0.494	0.423	14.4	95	0.00	12.01
47	1,1,1-Trichloroethane	2.292	1.949	15.0	103	0.00	12.10
48	1,2-Dichloroethane	1.312	1.073	18.2	104	0.00	13.08
49	Benzene	3.335	2.901	13.0	103	0.00	12.75
50	Carbon Tetrachloride	2.457	2.174	11.5	102	0.00	11.99
51	Cyclohexane	1.665	1.341	19.5	108	0.00	11.63
52	2,3-Dimethylpentane	0.669	0.617	7.8	104	0.00	11.81
53 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00	13.79
54	2,2,4-Trimethylpentane	1.538	1.241	19.3	106	0.00	12.53
55	Heptane	0.317	0.274	13.6	105	0.00	12.70
56	Trichloroethene	0.305	0.264	13.4	101	0.00	13.76
57	1,2-Dichloropropane	0.391	0.331	15.3	101	0.00	14.66
58	Dibromomethane	0.464	0.433	6.7	99	0.00	14.49
59	Ethyl Acrylate	0.709	0.615	13.3	102	0.00	14.65
60	Methyl Methacrylate	0.341	0.310	9.1	99	0.00	15.01
61	1,4-Dioxane	0.247	0.185	25.1	89	0.00	15.09
62	Bromodichloromethane	0.760	0.648	14.7	100	0.00	14.76
63	cis-1,3-Dichloropropene	0.644	0.556	13.7	105	0.00	15.87
64	4-Methyl-2-pentanone	0.306	0.277	9.5	99	0.00	16.95
65	trans-1,3-Dichloropropene	0.588	0.481	18.2	102	0.00	17.03
66	Toluene	1.278	1.029	19.5	99	0.00	16.31
67	1,1,2-Trichloroethane	0.435	0.387	11.0	97	0.00	17.32
68	1,3-Dichloropropane	0.567	0.505	10.9	101	0.00	17.83
69	2-Hexanone	0.770	0.638	17.1	98	0.00	18.48
70	Ethyl Methacrylate	0.553	0.537	2.9	101	0.00	17.29
71	Dibromochloromethane	0.784	0.738	5.9	95	0.00	17.67
72	Tetrachloroethene	0.594	0.534	10.1	94	0.00	17.03
73	1,2-Dibromoethane	0.684	0.619	9.5	96	0.00	18.13
74	Octane	0.701	0.583	16.8	99	0.00	15.97
75	1,1,1,2-Tetrachloroethane	0.518	0.467	9.8	93	0.00	19.19
76 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	19.06
77	Chlorobenzene	2.041	1.802	11.7	93	0.00	19.09
78	Ethylbenzene	3.305	2.880	12.9	95	0.00	19.12
79	m,p-Xylene	2.441	2.155	11.7	96	0.00	19.37
80	Styrene	1.818	1.649	9.3	94	0.00	20.16
81	Nonane	1.814	1.562	13.9	104	0.00	18.94
82	o-Xylene	2.499	2.164	13.4	94	0.00	20.08
83	Bromoform	1.626	1.526	6.2	92	0.00	20.21
84	1,1,2,2-Tetrachloroethane	2.085	1.773	15.0	94	0.00	21.24
85	1,2,3-Trichloropropane	1.519	1.270	16.4	96	0.00	21.44
86	Isopropylbenzene	3.389	3.117	8.0	96	0.00	20.56
87	Bromobenzene	1.098	1.094	0.4	93	0.00	21.14
88	2-Chlorotoluene	0.835	0.800	4.2	93	0.00	21.39
89	n-Propylbenzene	0.875	0.869	0.7	96	0.00	21.17
90 S	4-Bromofluorobenzene	1.238	1.308	-5.7	107	0.00	20.98
91	4-Ethyltoluene	3.158	3.006	4.8	96	0.00	21.31
92	1,3,5-Trimethylbenzene	2.576	2.431	5.6	96	0.00	21.43
93	alpha-Methylstyrene	1.281	1.256	2.0	91	0.00	21.77
94	tert-Butylbenzene	0.576	0.558	3.1	92	0.00	21.87
95	1,2,4-Trimethylbenzene	2.475	2.344	5.3	94	0.00	21.96
96	1,3-Dichlorobenzene	1.671	1.655	1.0	91	0.00	22.40
97	1,2,3-trimethylbenzene	2.466	2.234	9.4	91	0.00	22.52
98	Benzyl Chloride	0.454	0.466	-2.6	92	0.00	22.80
99	1,4-Dichlorobenzene	1.617	1.652	-2.2	93	0.00	22.51
100	sec-Butylbenzene	0.737	0.700	5.0	94	0.00	22.10

Initial Calibration Verification

Job Number: JD26114

Sample: V5W1785-ICV1785

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43603.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

101	p-Isopropyltoluene	0.788	0.766	2.8	92	0.00	22.28
102	1,2-Dichlorobenzene	1.611	1.548	3.9	88	0.00	23.03
103	n-Butylbenzene	0.705	0.679	3.7	92	0.00	22.81
104	Hexachloroethane	0.997	1.030	-3.3	93	0.00	23.01
105	1,2,4-Trichlorobenzene	0.812	0.768	5.4	86	0.00	24.83
106	Naphthalene	1.440	1.434	0.4	96	0.00	25.27
107	Hexachlorobutadiene	1.143	0.977	14.5	81	0.00	24.78
108 I	Bromochloromethane (A)	1.000	1.000	0.0	105	0.00	11.59
109	TVHC as equiv Pentane	9.258	9.363	-1.1	114	0.00	6.47

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

5w43597.D m5w1785.M

Wed Apr 21 16:36:02 2021

Continuing Calibration Summary

Job Number: JD26114

Sample: V5W1802-CC1785

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43868.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w43868.D Vial: 2
 Acq On : 25 May 2021 8:01 am Operator: thomash
 Sample : cc1785-10 Inst : Air5w
 Misc : ms51023,v5w1802,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1785.M (RTE Integrator)
 Title : TO-15 Full Scan Mode
 Last Update : Wed Apr 21 14:09:43 2021
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I Bromochloromethane	1.000	1.000	0.0	94	-0.02	11.57
2	Freon 152A	0.510	0.539	-5.7	109	0.00	4.42
3	Chlorodifluoromethane	0.184	0.212	-15.2	109	-0.01	4.48
4	Propene	0.494	0.522	-5.7	115	-0.01	4.31
5	Chlorotrifluoroethene	1.574	1.461	7.2	101	0.00	4.36
6	Dichlorodifluoromethane	2.609	2.463	5.6	106	0.00	4.41
7	1-Chloro-1,1-difluoroetha	1.574	1.596	-1.4	110	-0.01	4.84
8	Chloromethane	0.727	0.736	-1.2	112	-0.01	4.84
9	Dichlorotetrafluoroethane	2.831	2.721	3.9	105	-0.01	4.73
10	Vinyl Chloride	0.907	0.927	-2.2	109	0.00	5.06
11	1,3-Butadiene	0.603	0.660	-9.5	114	-0.01	5.12
12	n-Butane	0.113	0.135	-19.5	112	-0.01	4.94
13	Bromomethane	1.280	1.219	4.8	112	-0.01	5.81
14	Chloroethane	0.471	0.518	-10.0	119	-0.02	6.12
15	Dichlorofluoromethane	2.497	2.284	8.5	105	-0.02	6.59
16	Acetonitrile	0.744	0.772	-3.8	116	-0.01	6.47
17	Freon 123	2.665	2.393	10.2	100	-0.02	7.73
18	Freon 123A	1.384	1.210	12.6	92	-0.02	7.60
19	Bromoethene	1.227	1.086	11.5	95	-0.01	6.39
20	Acrolein	0.411	0.377	8.3	102	-0.02	8.26
21	Trichlorofluoromethane	2.871	2.580	10.1	100	-0.02	6.46
22	Acetone	0.436	0.408	6.4	105	-0.03	8.85
23	Pentane	0.250	0.247	1.2	108	-0.01	6.47
24	Iodomethane	3.712	3.175	14.5	90	-0.02	7.87
25	Isopropyl Alcohol	0.295	0.273	7.5	107	-0.02	8.64
26	1,1-Dichloroethene	1.646	1.566	4.9	104	-0.01	7.59
27	Freon 113	2.647	2.374	10.3	97	-0.02	7.70
28	Methylene Chloride	1.135	0.958	15.6	101	-0.02	8.76
29	Carbon Disulfide	3.248	2.930	9.8	100	-0.02	7.63
30	Ethanol	0.426	0.386	9.4	102	-0.02	7.51
31	Acrylonitrile	0.830	0.763	8.1	109	-0.03	10.30
32	3-Chloropropene	0.505	0.489	3.2	100	-0.02	8.56
33	trans-1,2-Dichloroethene	1.543	1.409	8.7	105	-0.02	9.10
34	tert-Butyl Alcohol	2.160	1.924	10.9	104	-0.02	9.51
35	Methyl tert-Butyl Ether	3.146	2.688	14.6	103	-0.02	9.33
36	Vinyl Acetate	2.715	2.522	7.1	112	-0.02	10.70
37	1,1-Dichloroethane	1.978	1.800	9.0	106	-0.02	10.25
38	2-Butanone	0.449	0.466	-3.8	98	-0.03	12.21
39	Hexane	0.828	0.801	3.3	106	-0.01	9.29
40	cis-1,2-Dichloroethene	1.503	1.399	6.9	107	-0.02	11.22
41	Di-isopropyl Ether	0.865	0.801	7.4	98	-0.02	10.06
42	Ethyl Acetate	0.320	0.316	1.3	102	-0.03	11.90

Continuing Calibration Summary

Job Number: JD26114

Sample: V5W1802-CC1785

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43868.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

43	Methyl Acrylate	1.883	1.728	8.2	105	-0.02	11.92
44	Chloroform	2.403	2.216	7.8	103	-0.02	11.70
45	2,4-Dimethylpentane	1.923	1.738	9.6	106	-0.02	10.36
46	Tetrahydrofuran	0.494	0.493	0.2	99	-0.03	11.99
47	1,1,1-Trichloroethane	2.292	2.101	8.3	100	-0.02	12.08
48	1,2-Dichloroethane	1.312	1.211	7.7	106	-0.02	13.06
49	Benzene	3.335	3.129	6.2	100	-0.02	12.73
50	Carbon Tetrachloride	2.457	2.312	5.9	98	-0.02	11.98
51	Cyclohexane	1.665	1.475	11.4	107	-0.02	11.62
52	2,3-Dimethylpentane	0.669	0.674	-0.7	103	-0.02	11.79
53 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	-0.02	13.77
54	2,2,4-Trimethylpentane	1.538	1.310	14.8	106	-0.02	12.51
55	Heptane	0.317	0.279	12.0	101	-0.02	12.68
56	Trichloroethene	0.305	0.270	11.5	98	-0.02	13.75
57	1,2-Dichloropropane	0.391	0.342	12.5	100	-0.02	14.64
58	Dibromomethane	0.464	0.419	9.7	92	-0.02	14.47
59	Ethyl Acrylate	0.709	0.647	8.7	102	-0.02	14.63
60	Methyl Methacrylate	0.341	0.321	5.9	97	-0.02	14.99
61	1,4-Dioxane	0.247	0.203	17.8	93	-0.02	15.07
62	Bromodichloromethane	0.760	0.679	10.7	100	-0.02	14.74
63	cis-1,3-Dichloropropene	0.644	0.540	16.1	97	-0.02	15.85
64	4-Methyl-2-pentanone	0.306	0.272	11.1	93	-0.03	16.92
65	trans-1,3-Dichloropropene	0.588	0.488	17.0	99	-0.02	17.01
66	Toluene	1.278	1.047	18.1	96	-0.02	16.29
67	1,1,2-Trichloroethane	0.435	0.393	9.7	94	-0.03	17.30
68	1,3-Dichloropropane	0.567	0.506	10.8	97	-0.03	17.81
69	2-Hexanone	0.770	0.595	22.7	87	-0.03	18.46
70	Ethyl Methacrylate	0.553	0.525	5.1	94	-0.02	17.27
71	Dibromochloromethane	0.784	0.749	4.5	92	-0.02	17.65
72	Tetrachloroethene	0.594	0.575	3.2	96	-0.02	17.01
73	1,2-Dibromoethane	0.684	0.644	5.8	95	-0.03	18.10
74	Octane	0.701	0.627	10.6	101	-0.02	15.96
75	1,1,1,2-Tetrachloroethane	0.518	0.499	3.7	94	-0.02	19.17
76 I	Chlorobenzene-d5	1.000	1.000	0.0	99	-0.02	19.03
77	Chlorobenzene	2.041	1.901	6.9	95	-0.02	19.07
78	Ethylbenzene	3.305	2.949	10.8	94	-0.02	19.10
79	m,p-Xylene	2.441	2.204	9.7	95	-0.02	19.35
80	Styrene	1.818	1.735	4.6	96	-0.02	20.13
81	Nonane	1.814	1.419	21.8	92	-0.02	18.92
82	o-Xylene	2.499	2.216	11.3	94	-0.02	20.06
83	Bromoform	1.626	1.594	2.0	93	-0.02	20.19
84	1,1,2,2-Tetrachloroethane	2.085	1.880	9.8	97	-0.02	21.22
85	1,2,3-Trichloropropane	1.519	1.398	8.0	102	-0.02	21.42
86	Isopropylbenzene	3.389	3.135	7.5	94	-0.02	20.54
87	Bromobenzene	1.098	1.102	-0.4	91	-0.02	21.12
88	2-Chlorotoluene	0.835	0.806	3.5	91	-0.02	21.37
89	n-Propylbenzene	0.875	0.853	2.5	92	-0.02	21.15
90 S	4-Bromofluorobenzene	1.238	1.271	-2.7	101	-0.02	20.96
91	4-Ethyltoluene	3.158	3.024	4.2	93	-0.01	21.30
92	1,3,5-Trimethylbenzene	2.576	2.410	6.4	93	-0.02	21.41
93	alpha-Methylstyrene	1.281	1.276	0.4	90	-0.02	21.75
94	tert-Butylbenzene	0.576	0.533	7.5	86	-0.02	21.85
95	1,2,4-Trimethylbenzene	2.475	2.347	5.2	91	-0.02	21.94
96	1,3-Dichlorobenzene	1.671	1.695	-1.4	91	-0.02	22.38
97	1,2,3-trimethylbenzene	2.466	2.353	4.6	93	-0.01	22.51
98	Benzyl Chloride	0.454	0.489	-7.7	94	-0.02	22.78
99	1,4-Dichlorobenzene	1.617	1.748	-8.1	96	-0.02	22.49
100	sec-Butylbenzene	0.737	0.663	10.0	86	-0.01	22.09

Continuing Calibration Summary

Job Number: JD26114

Sample: V5W1802-CC1785

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 5W43868.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

101	p-Isopropyltoluene	0.788	0.750	4.8	88	-0.02	22.26
102	1,2-Dichlorobenzene	1.611	1.634	-1.4	90	-0.02	23.01
103	n-Butylbenzene	0.705	0.688	2.4	91	-0.02	22.79
104	Hexachloroethane	0.997	0.960	3.7	84	-0.02	23.00
105	1,2,4-Trichlorobenzene	0.812	0.923	-13.7	101	-0.02	24.81
106	Naphthalene	1.440	1.739	-20.8	113	-0.02	25.25
107	Hexachlorobutadiene	1.143	0.951	16.8	77	-0.02	24.76
108 I	Bromochloromethane (A)	1.000	1.000	0.0	94	-0.02	11.57
109	TVHC as equiv Pentane	9.258	9.822	-6.1	107	-0.01	6.47

(#) = Out of Range
5w43597.D m5w1785.M

SPCC's out = 0 CCC's out = 0
Wed May 26 09:46:14 2021

Run Sequence Report

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Run ID: V2W2318	Method: TO-15	Instrument ID: GCMS2W
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2318-BFB	2W52193.D	03/05/21 10:43	n/a	BFB Tune
V2W2318-ICC2318	2W52194.D	03/05/21 11:14	n/a	Initial cal 10
V2W2318-IC2318	2W52198.D	03/05/21 13:53	n/a	Initial cal 0.5
V2W2318-IC2318	2W52199.D	03/05/21 14:24	n/a	Initial cal 0.2
V2W2318-IC2318	2W52200.D	03/05/21 14:56	n/a	Initial cal 0.1
V2W2318-IC2318	2W52201.D	03/05/21 15:27	n/a	Initial cal 0.04
V2W2318-IC2318	2W52202.D	03/05/21 15:58	n/a	Initial cal 5
V2W2318-IC2318	2W52203.D	03/05/21 16:31	n/a	Initial cal 20
V2W2318-IC2318	2W52204.D	03/05/21 17:05	n/a	Initial cal 40
V2W2318-ICV2318	2W52206.D	03/05/21 18:07	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Run ID: V2W2391	Method: TO-15	Instrument ID: GCMS2W
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2391-BFB	2W53949.D	06/09/21 07:39	n/a	BFB Tune
V2W2391-CC2318	2W53950.D	06/09/21 08:22	n/a	Continuing cal 10
V2W2391-BS	2W53951.D	06/09/21 09:08	n/a	Blank Spike
V2W2391-BSD	2W53952.D	06/09/21 09:39	n/a	Blank Spike Duplicate
V2W2391-MB	2W53954.D	06/09/21 10:53	n/a	Method Blank
V2W2391-SCC	2W53955.D	06/09/21 12:48	n/a	Summa Cleaning Certification
V2W2391-SCC	2W53956.D	06/09/21 13:21	n/a	Summa Cleaning Certification
V2W2391-SCC	2W53957.D	06/09/21 13:54	n/a	Summa Cleaning Certification
JD26149-1	2W53958.D	06/09/21 14:26	n/a	(used for QC only; not part of job JD26114)
JD26149-1DUP	2W53959.D	06/09/21 14:58	n/a	Duplicate
JD26114-1	2W53960.D	06/09/21 15:28	n/a	SSDS EFFLUENT
ZZZZZZ	2W53961.D	06/09/21 16:02	n/a	(unrelated sample)
ZZZZZZ	2W53962.D	06/09/21 16:35	n/a	(unrelated sample)
ZZZZZZ	2W53963.D	06/09/21 17:10	n/a	(unrelated sample)
ZZZZZZ	2W53966.D	06/09/21 18:51	n/a	(unrelated sample)
ZZZZZZ	2W53971.D	06/09/21 21:40	n/a	(unrelated sample)
ZZZZZZ	2W53972.D	06/09/21 23:30	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD26114

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Run ID: V5W1785	Method: TO-15	Instrument ID: GCMS5W
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W1785-BFB	5W43591.D	04/20/21 14:58	n/a	BFB Tune
V5W1785-IC1785	5W43592.D	04/20/21 15:47	n/a	Initial cal 0.04
V5W1785-IC1785	5W43593.D	04/20/21 16:35	n/a	Initial cal 0.1
V5W1785-IC1785	5W43594.D	04/20/21 17:24	n/a	Initial cal 0.2
V5W1785-IC1785	5W43595.D	04/20/21 18:14	n/a	Initial cal 0.5
V5W1785-IC1785	5W43596.D	04/20/21 19:02	n/a	Initial cal 5
V5W1785-ICC1785	5W43597.D	04/20/21 19:52	n/a	Initial cal 10
V5W1785-IC1785	5W43598.D	04/20/21 20:42	n/a	Initial cal 20
V5W1785-IC1785	5W43599.D	04/20/21 21:36	n/a	Initial cal 40
V5W1785-ICV1785	5W43603.D	04/21/21 11:17	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD26114

Account: FLSNYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Run ID: V5W1802	Method: TO-15	Instrument ID: GCMS5W
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W1802-BFB	5W43867.D	05/25/21 07:12	n/a	BFB Tune
V5W1802-CC1785	5W43868.D	05/25/21 08:01	n/a	Continuing cal 10
V5W1802-BS	5W43869.D	05/25/21 09:01	n/a	Blank Spike
V5W1802-BSD	5W43870.D	05/25/21 09:49	n/a	Blank Spike Duplicate
V5W1802-MB	5W43872.D	05/25/21 11:47	n/a	Method Blank
ZZZZZZ	5W43873.D	05/25/21 12:35	n/a	(unrelated sample)
JD25417-1	5W43874.D	05/25/21 13:46	n/a	(used for QC only; not part of job JD26114)
JD25417-1DUP	5W43875.D	05/25/21 14:40	n/a	Duplicate
ZZZZZZ	5W43876.D	05/25/21 15:34	n/a	(unrelated sample)
ZZZZZZ	5W43877.D	05/25/21 16:30	n/a	(unrelated sample)
V5W1802-SCC	5W43878.D	05/25/21 17:19	n/a	Summa Cleaning Certification
V5W1802-SCC	5W43880.D	05/25/21 19:08	n/a	Summa Cleaning Certification
ZZZZZZ	5W43881.D	05/25/21 19:56	n/a	(unrelated sample)
ZZZZZZ	5W43881R.D	05/25/21 19:56	n/a	(unrelated sample)
ZZZZZZ	5W43882.D	05/25/21 20:46	n/a	(unrelated sample)
ZZZZZZ	5W43882R.D	05/25/21 20:46	n/a	(unrelated sample)
ZZZZZZ	5W43883.D	05/25/21 21:36	n/a	(unrelated sample)
ZZZZZZ	5W43883R.D	05/25/21 21:36	n/a	(unrelated sample)
ZZZZZZ	5W43884.D	05/25/21 22:25	n/a	(unrelated sample)
ZZZZZZ	5W43884R.D	05/25/21 22:25	n/a	(unrelated sample)
ZZZZZZ	5W43885.D	05/25/21 23:15	n/a	(unrelated sample)
ZZZZZZ	5W43886.D	05/26/21 00:05	n/a	(unrelated sample)
ZZZZZZ	5W43887.D	05/26/21 00:56	n/a	(unrelated sample)
ZZZZZZ	5W43888.D	05/26/21 01:44	n/a	(unrelated sample)
ZZZZZZ	5W43889.D	05/26/21 02:35	n/a	(unrelated sample)
ZZZZZZ	5W43890.D	05/26/21 03:25	n/a	(unrelated sample)
ZZZZZZ	5W43891.D	05/26/21 04:15	n/a	(unrelated sample)
ZZZZZZ	5W43892.D	05/26/21 05:05	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53960.D
 Acq On : 9 Jun 2021 3:28 pm
 Operator : thomash
 Sample : jd26114-1
 Misc : MS51416,V2W2391,100,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 15 11:47:58 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

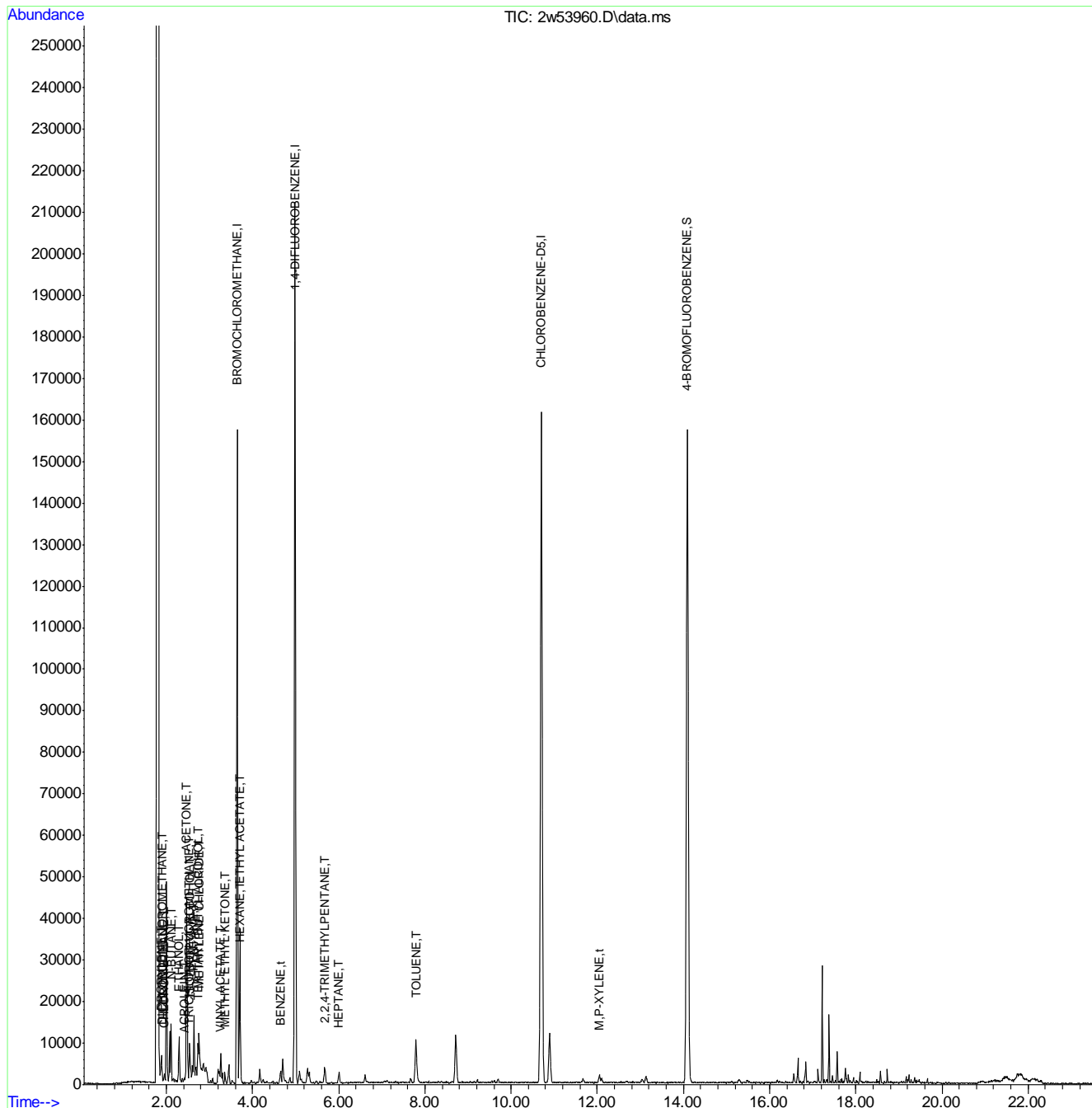
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.643	128	37842	10.00	PPBV	0.02
52) 1,4-DIFLUOROBENZENE	4.984	114	188193	10.00	PPBV	0.02
76) CHLOROBENZENE-D5	10.704	117	167670	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	99934	9.64	PPBV	0.00
Target Compounds						
						Qvalue
6) DICHLORODIFLUOROMETHANE	1.901	85	1519	0.13	PPBV	96
7) PROPYLENE	1.881	41	1333	0.38	PPBV #	80
10) CHLOROMETHANE	1.955	52	189	0.15	PPBV	93
13) N-BUTANE	2.110	43	8158	1.23	PPBV #	95
18) ACROLEIN	2.422	56	391	0.17	PPBV #	73
21) TRICHLOROFLUOROMETHANE	2.521	101	1115	0.10	PPBV #	93
22) ISOPROPYL ALCOHOL	2.541	45	6850	0.75	PPBV #	89
23) ACETONE	2.467	58	12807	4.35	PPBV	84
24) PENTANE	2.637	42	3379	0.79	PPBV	93
28) ETHANOL	2.290	45	8914	4.50	PPBV	96
31) METHYLENE CHLORIDE	2.759	84	2894	0.50	PPBV	95
35) TERTIARY BUTYL ALCOHOL	2.730	59	4987	0.56	PPBV #	84
38) HEXANE	3.695	57	3057	0.37	PPBV	95
39) VINYL ACETATE	3.245	86	356	0.27	PPBV #	31
41) METHYL ETHYL KETONE	3.357	72	738	0.26	PPBV #	87
44) ETHYL ACETATE	3.704	61	4421	2.94	PPBV #	1
51) BENZENE	4.650	78	2785	0.15	PPBV	89
60) 2,2,4-TRIMETHYLPENTANE	5.675	57	4077	0.16	PPBV #	91
62) HEPTANE	6.007	43	1232	0.16	PPBV	84
66) TOLUENE	7.794	91	10928	0.46	PPBV	99
80) M,P-XYLENE	12.051	91	2296	0.11	PPBV #	76

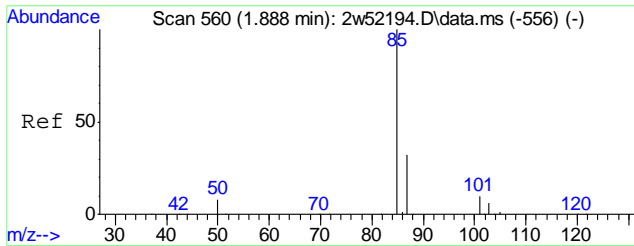
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53960.D
 Acq On : 9 Jun 2021 3:28 pm
 Operator : thomash
 Sample : jd26114-1
 Misc : MS51416,V2W2391,100,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

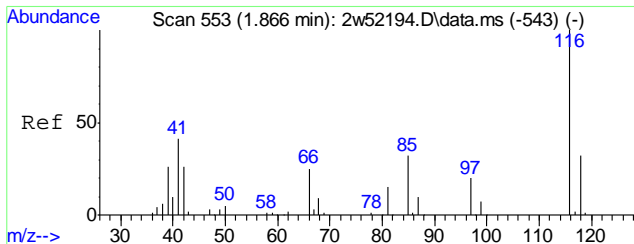
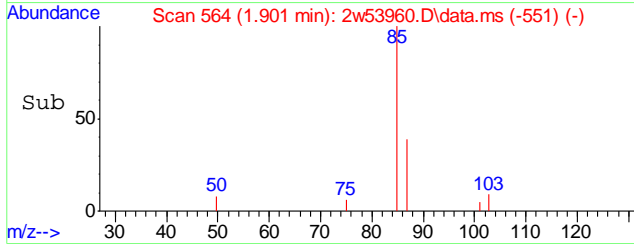
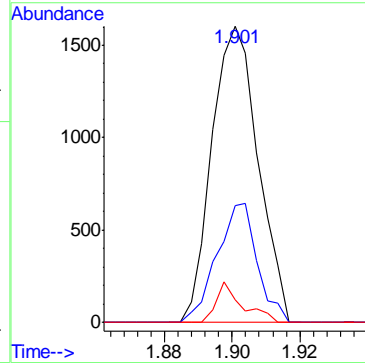
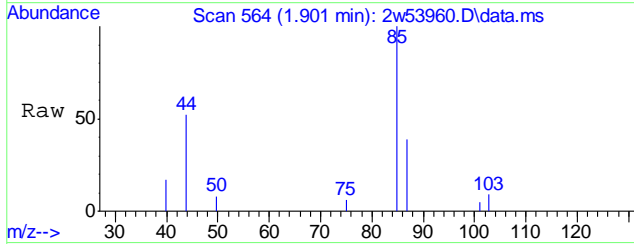
Quant Time: Jun 15 11:47:58 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration





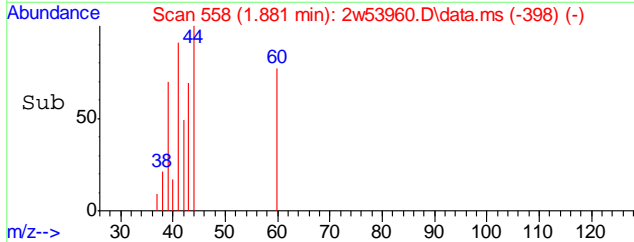
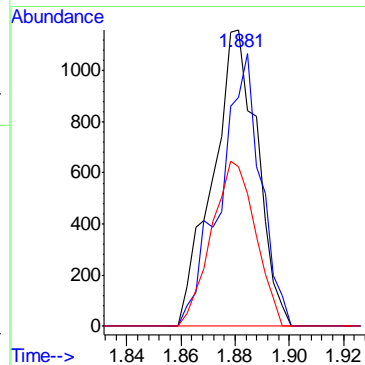
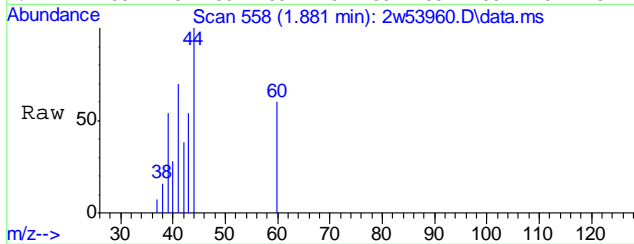
#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.13 PPBV
 RT: 1.901 min Scan# 564
 Delta R.T. 0.012 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
85	1519		
85	100		
87	35.0	26.0	39.0
50	7.6	7.3	10.9

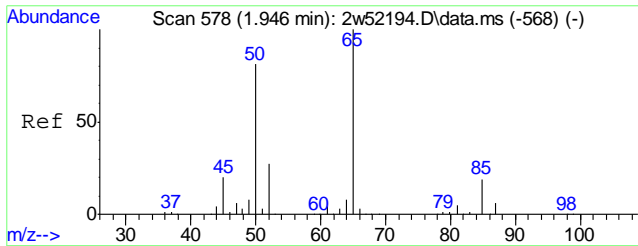


#7
 PROPYLENE
 Concen: 0.38 PPBV
 RT: 1.881 min Scan# 558
 Delta R.T. 0.016 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
41	1333		
41	100		
39	83.0	51.3	76.9#
42	54.7	53.8	80.8

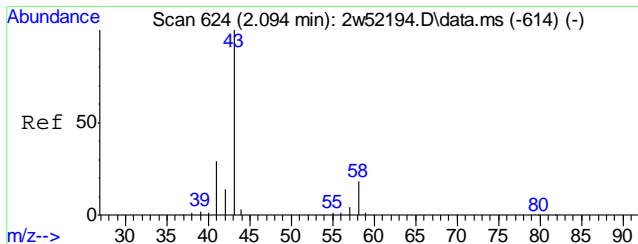
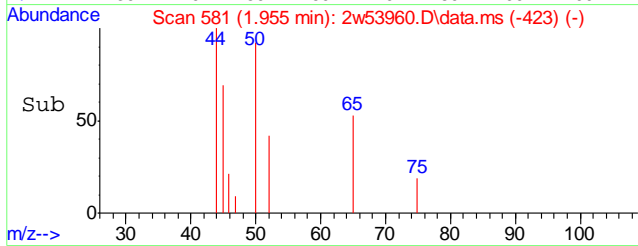
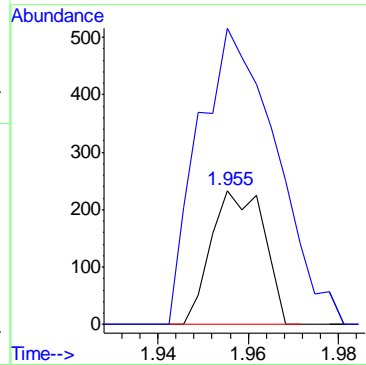
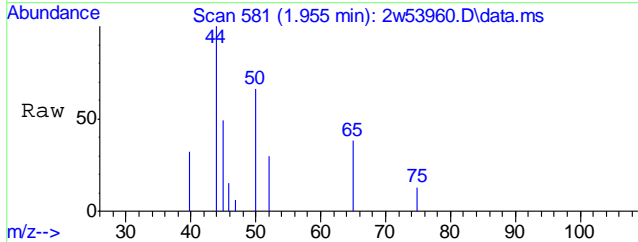


7.1.1
7



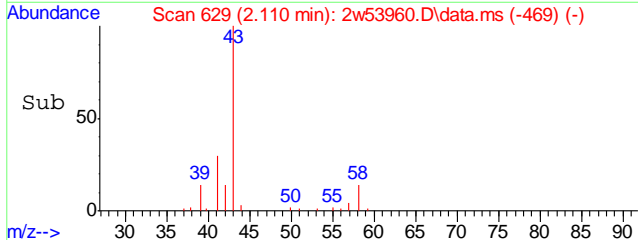
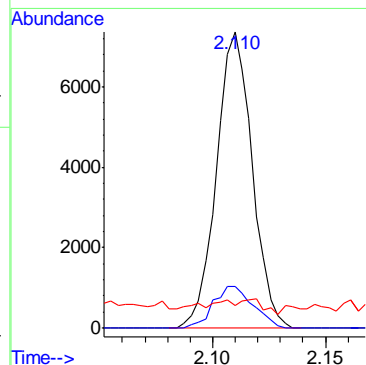
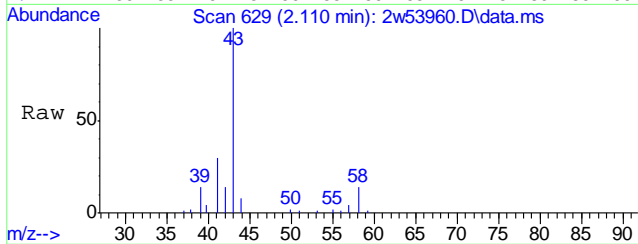
#10
 CHLOROMETHANE
 Concen: 0.15 PPBV
 RT: 1.955 min Scan# 581
 Delta R.T. 0.009 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

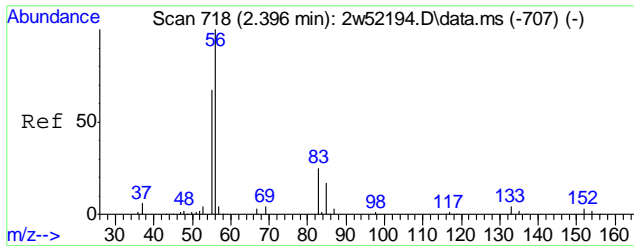
Tgt Ion	Resp	Lower	Upper
52	189		
50	325.4	249.7	374.5



#13
 N-BUTANE
 Concen: 1.23 PPBV
 RT: 2.110 min Scan# 629
 Delta R.T. 0.016 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

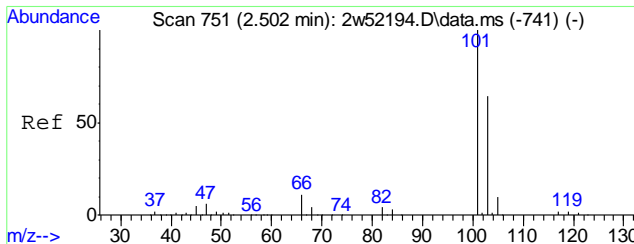
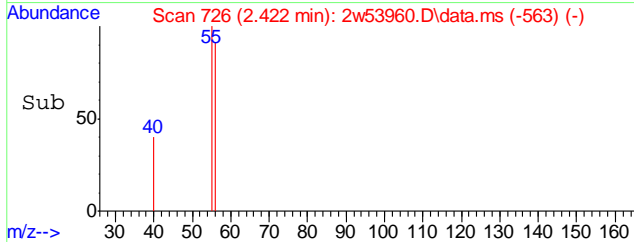
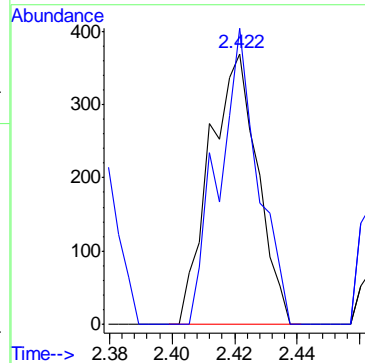
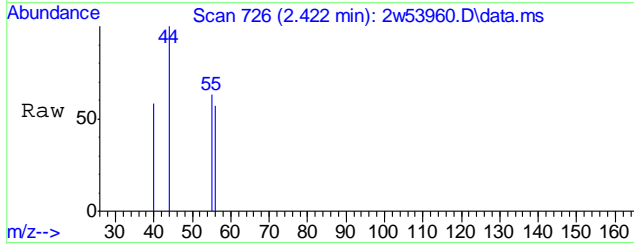
Tgt Ion	Resp	Lower	Upper
43	8158		
58	15.7	14.3	21.5
44	0.0	0.0	0.0





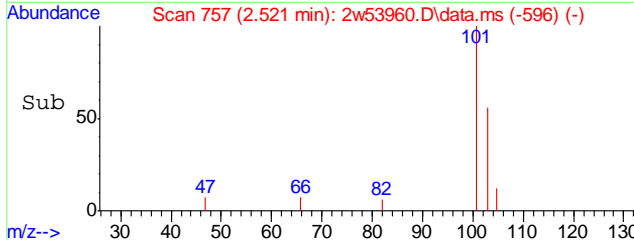
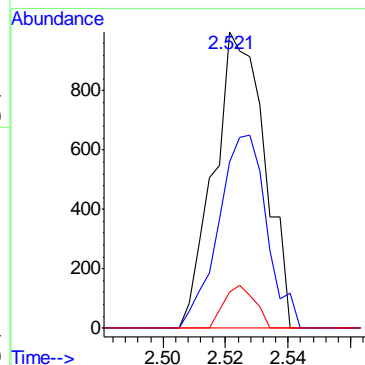
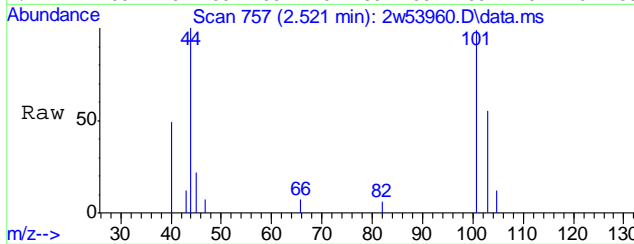
#18
 ACROLEIN
 Concen: 0.17 PPBV
 RT: 2.422 min Scan# 726
 Delta R.T. 0.025 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

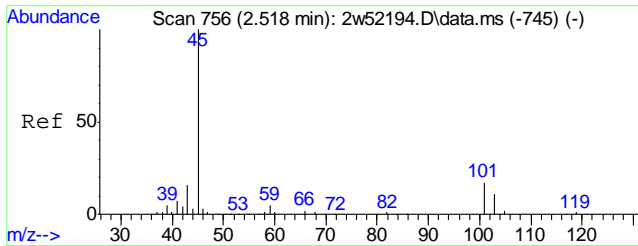
Tgt Ion	Resp	Lower	Upper
56	100		
55	90.5	54.8	82.2#



#21
 TRICHLOROFLUOROMETHANE
 Concen: 0.10 PPBV
 RT: 2.521 min Scan# 757
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

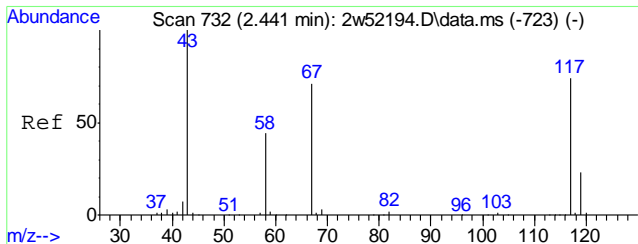
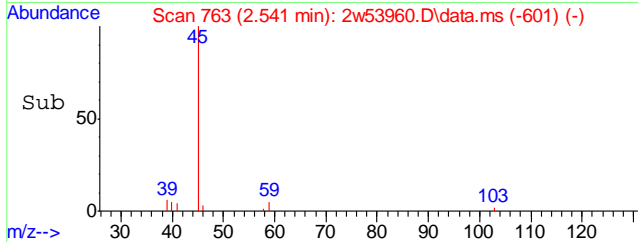
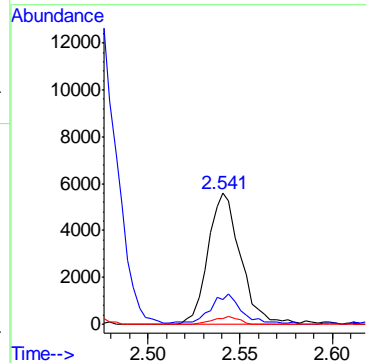
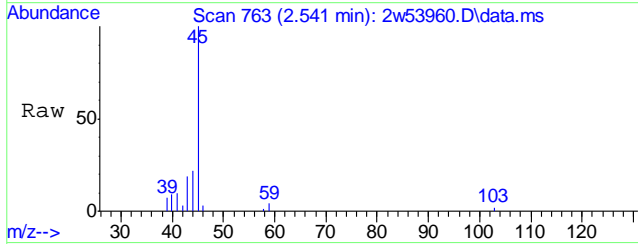
Tgt Ion	Resp	Lower	Upper
101	100		
103	62.2	51.9	77.9
105	0.0	8.4	12.6#





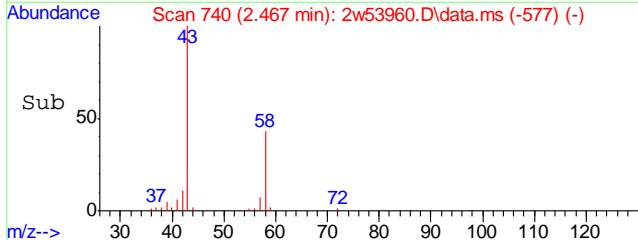
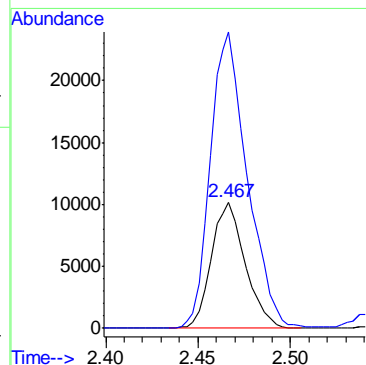
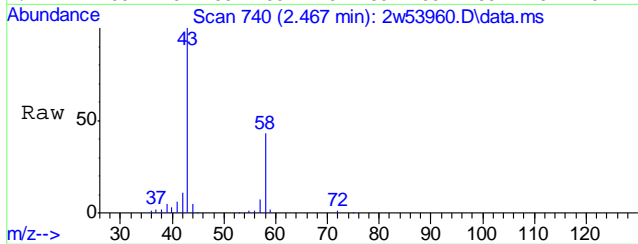
#22
 ISOPROPYL ALCOHOL
 Concen: 0.75 PPBV
 RT: 2.541 min Scan# 763
 Delta R.T. 0.022 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

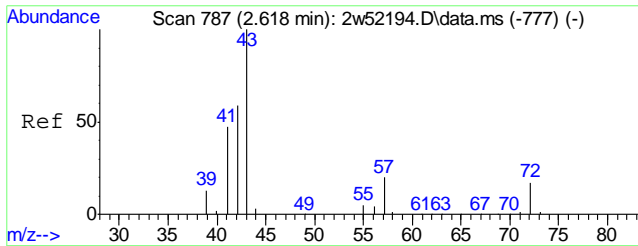
Tgt Ion	Resp	Lower	Upper
45	6850	100	
43	22.8	13.5	20.3#
59	4.7	3.9	5.9



#23
 ACETONE
 Concen: 4.35 PPBV
 RT: 2.467 min Scan# 740
 Delta R.T. 0.025 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

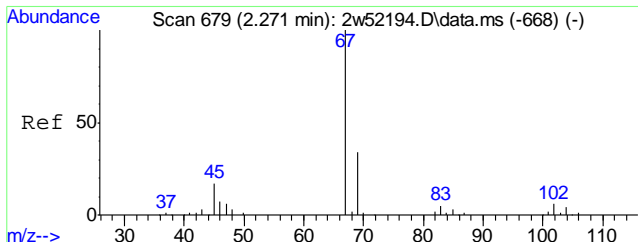
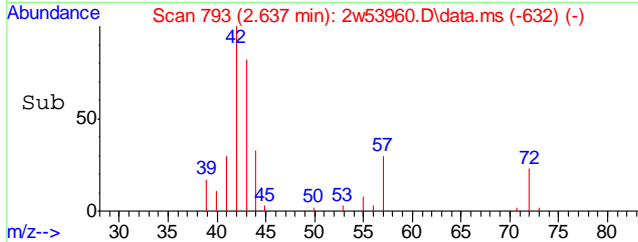
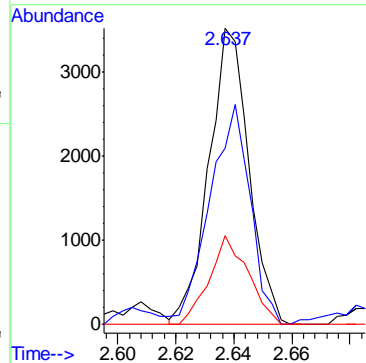
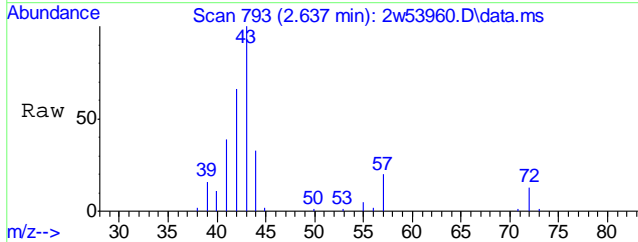
Tgt Ion	Resp	Lower	Upper
58	12807	100	
43	258.2	185.3	277.9





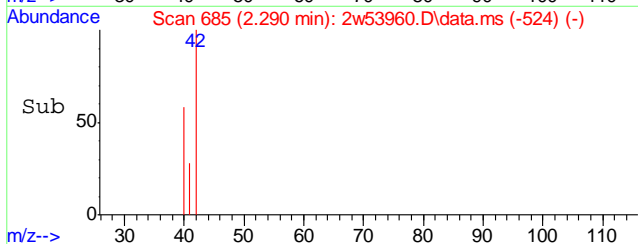
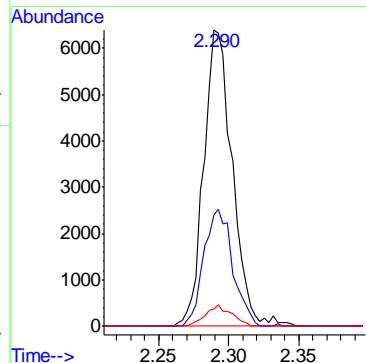
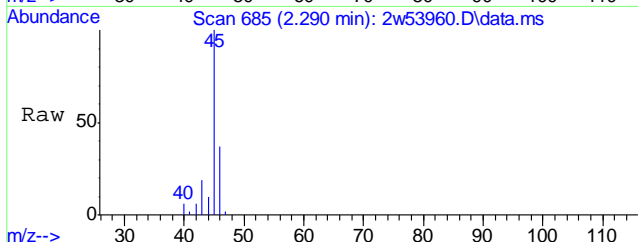
#24
 PENTANE
 Concen: 0.79 PPBV
 RT: 2.637 min Scan# 793
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

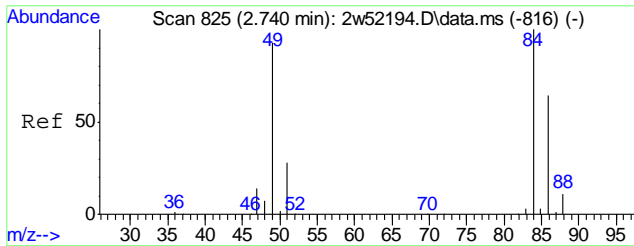
Tgt Ion	Resp	Lower	Upper
42	3379		
42	100		
41	74.9	65.1	97.7
57	29.1	26.2	39.2



#28
 ETHANOL
 Concen: 4.50 PPBV
 RT: 2.290 min Scan# 685
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

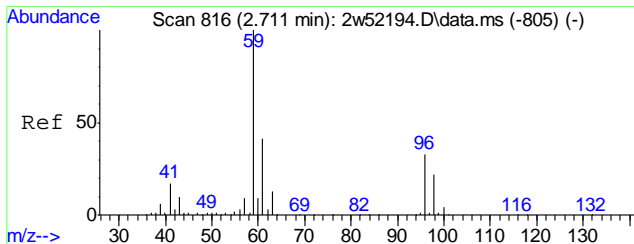
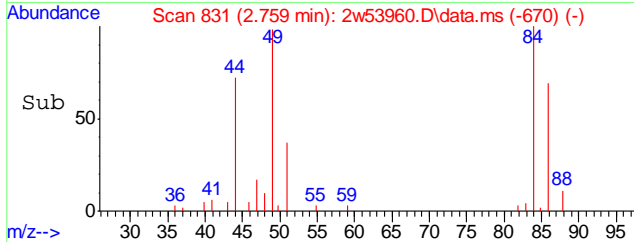
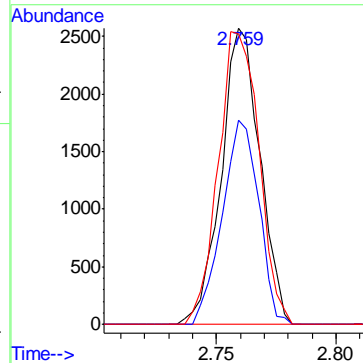
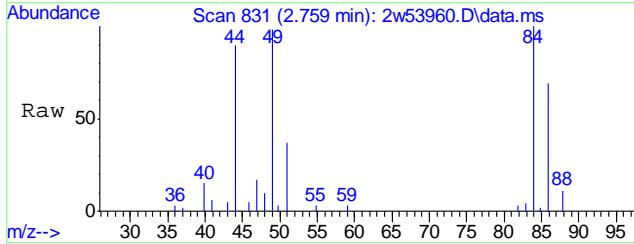
Tgt Ion	Resp	Lower	Upper
45	8914		
45	100		
46	39.9	33.8	50.6
42	6.4	6.1	9.1





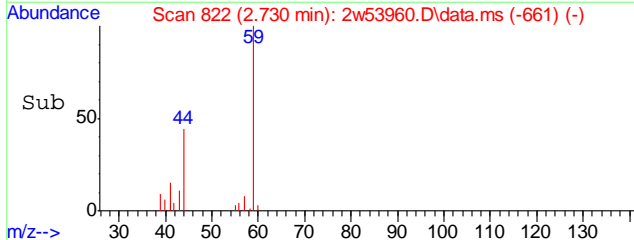
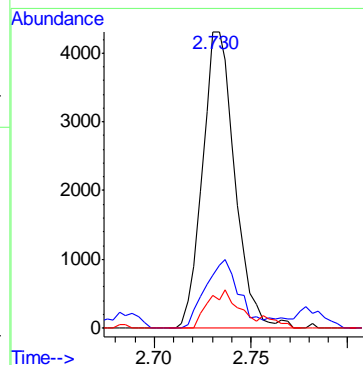
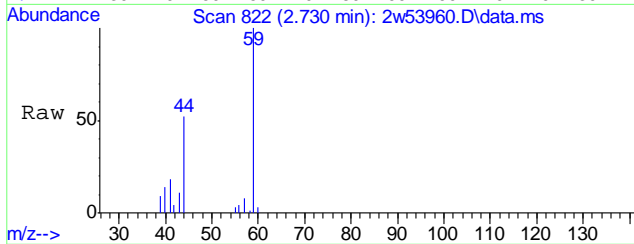
#31
 METHYLENE CHLORIDE
 Concen: 0.50 PPBV
 RT: 2.759 min Scan# 831
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
84	2894		
84	100		
86	64.8	52.1	78.1
49	103.6	76.1	114.1

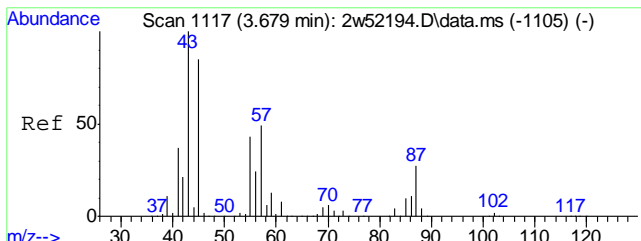


#35
 TERTIARY BUTYL ALCOHOL
 Concen: 0.56 PPBV
 RT: 2.730 min Scan# 822
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
59	4987		
59	100		
41	26.3	14.3	21.5#
43	14.5	8.5	12.7#

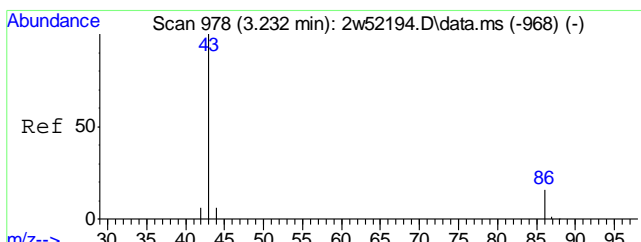
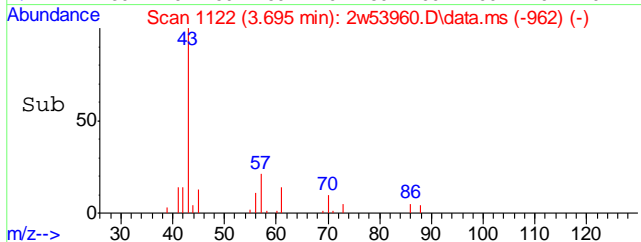
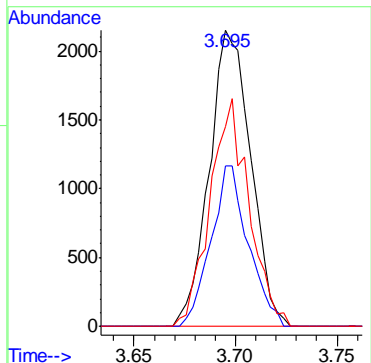
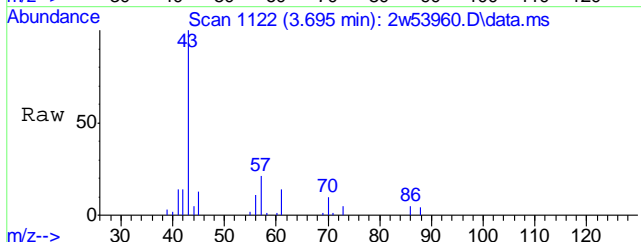


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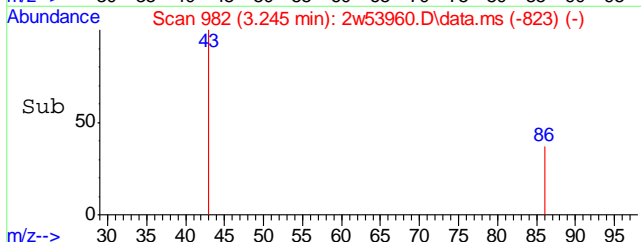
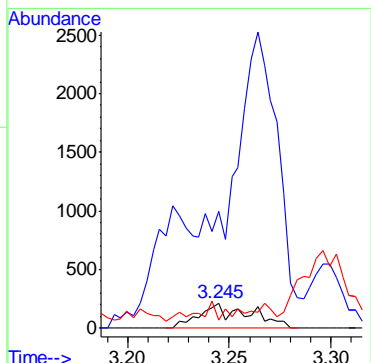
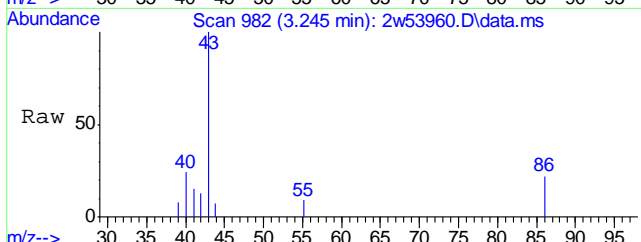
#38
 HEXANE
 Concen: 0.37 PPBV
 RT: 3.695 min Scan# 1122
 Delta R.T. 0.016 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
57	3057		
57	100		
56	48.8	41.0	61.6
41	72.4	62.2	93.2

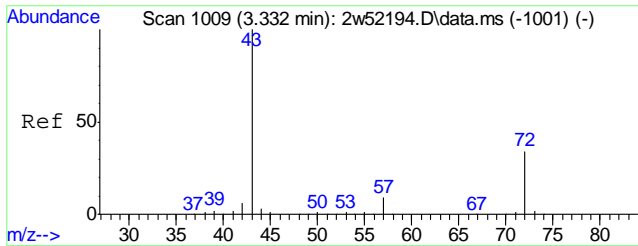


#39
 VINYL ACETATE
 Concen: 0.27 PPBV
 RT: 3.245 min Scan# 982
 Delta R.T. 0.012 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
86	356		
86	100		
43	940.2	560.2	840.4#
44	0.0	33.9	50.9#

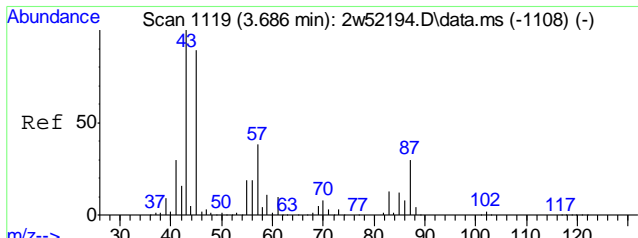
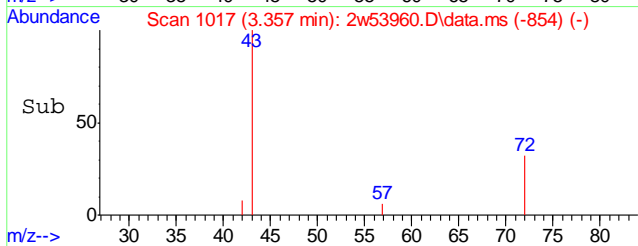
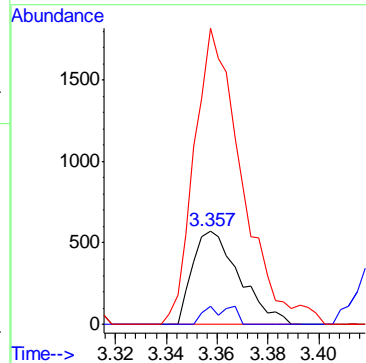
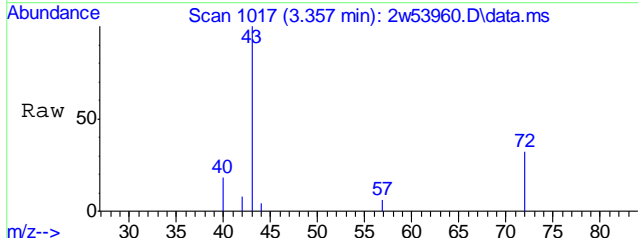


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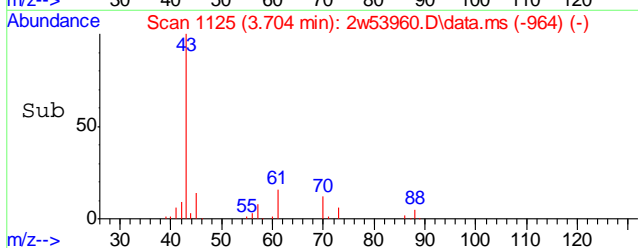
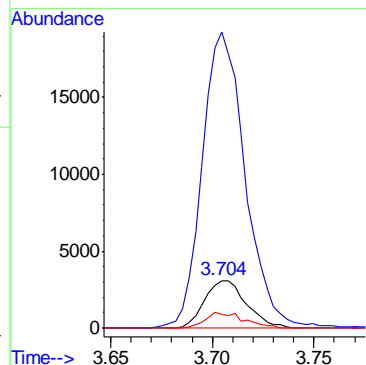
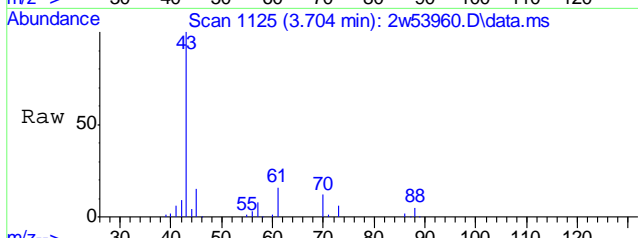
#41
 METHYL ETHYL KETONE
 Concen: 0.26 PPBV
 RT: 3.357 min Scan# 1017
 Delta R.T. 0.025 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
72	738		
72	100		
57	0.0	21.8	32.8#
43	321.0	242.1	363.1

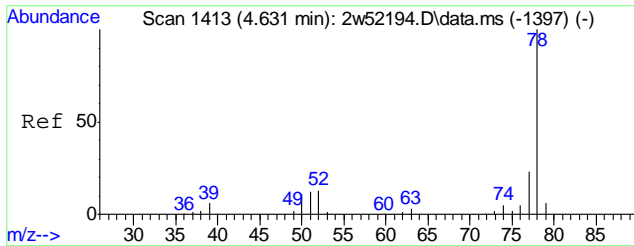


#44
 ETHYL ACETATE
 Concen: 2.94 PPBV
 RT: 3.704 min Scan# 1125
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
61	4421		
61	100		
43	643.2	928.8	1393.2#
88	30.5	39.9	59.9#

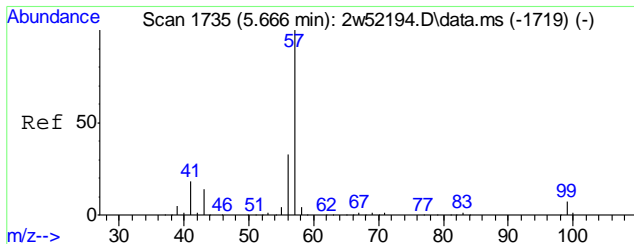
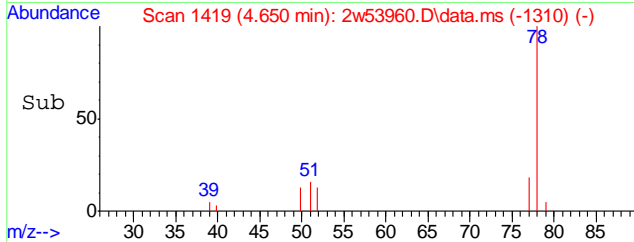
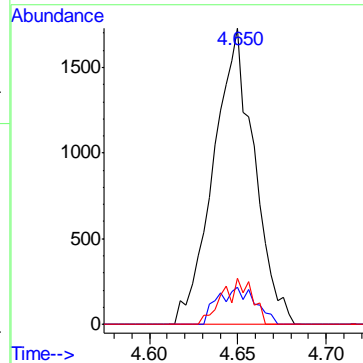
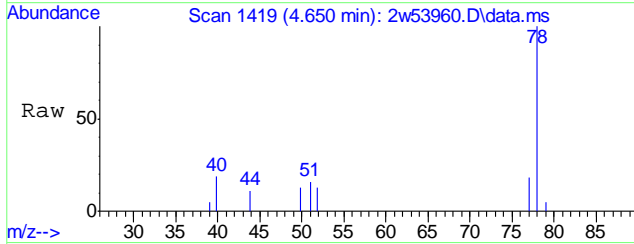


7.1.1
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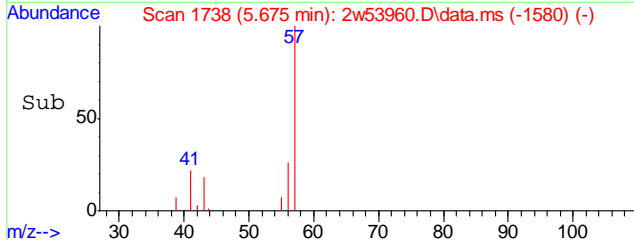
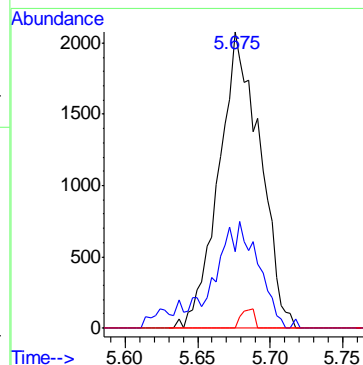
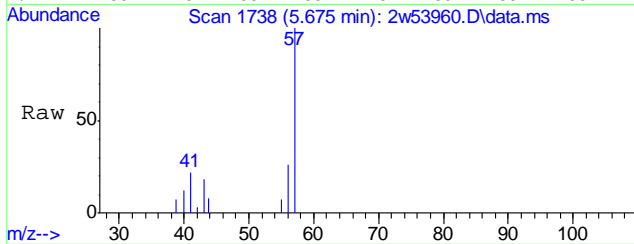
#51
 BENZENE
 Concen: 0.15 PPBV
 RT: 4.650 min Scan# 1419
 Delta R.T. 0.019 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

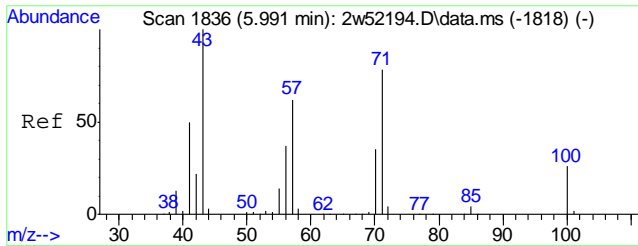
Tgt Ion	Resp	Lower	Upper
78	2785		
78	100		
52	11.7	0.0	33.0
51	4.9	0.0	32.3



#60
 2,2,4-TRIMETHYLPENTANE
 Concen: 0.16 PPBV
 RT: 5.675 min Scan# 1738
 Delta R.T. 0.009 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
57	4077		
57	100		
56	36.8	26.4	39.6
99	0.0	5.4	8.2#

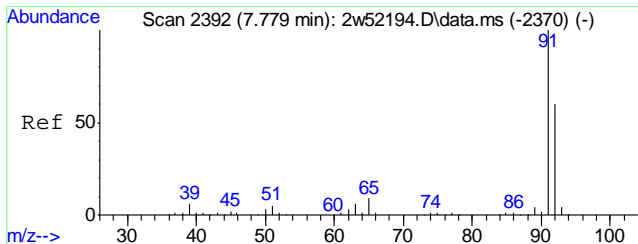
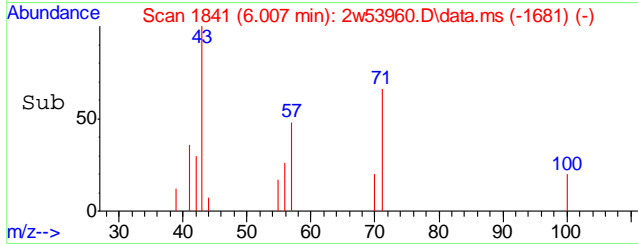
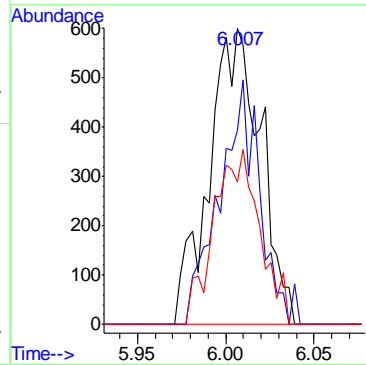
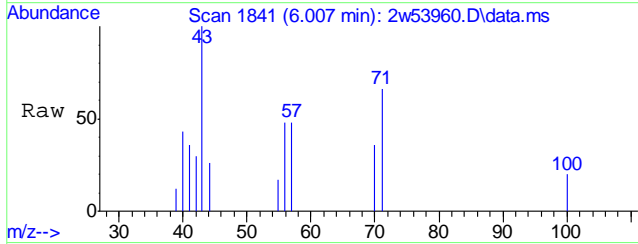




#62
 HEPTANE
 Concen: 0.16 PPBV
 RT: 6.007 min Scan# 1841
 Delta R.T. 0.016 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion: 43 Resp: 1232

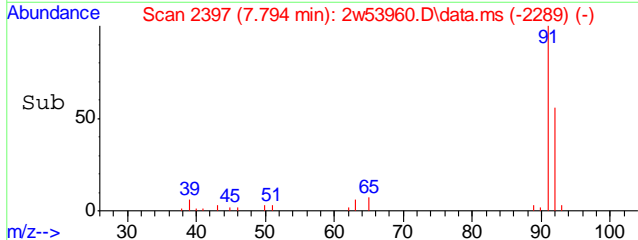
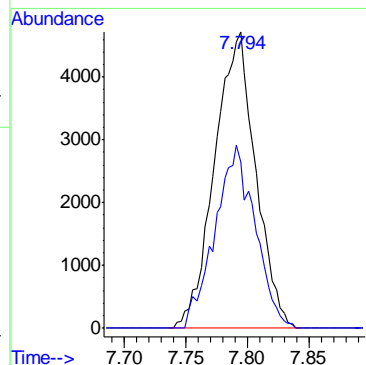
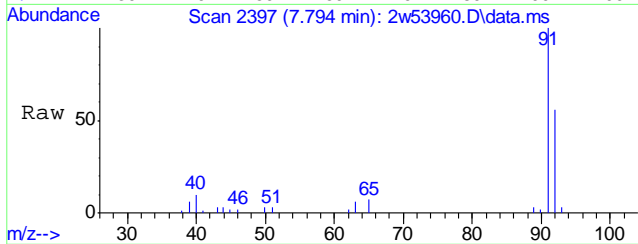
Ion	Ratio	Lower	Upper
43	100		
71	63.4	63.1	94.7
57	52.1	50.5	75.7

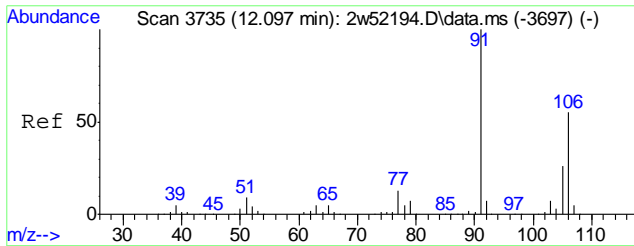


#66
 TOLUENE
 Concen: 0.46 PPBV
 RT: 7.794 min Scan# 2397
 Delta R.T. 0.016 min
 Lab File: 2w53960.D
 Acq: 9 Jun 2021 3:28 pm

Tgt Ion: 91 Resp: 10928

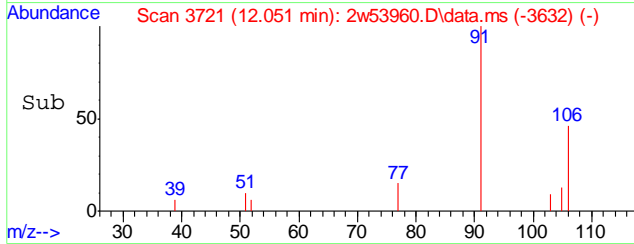
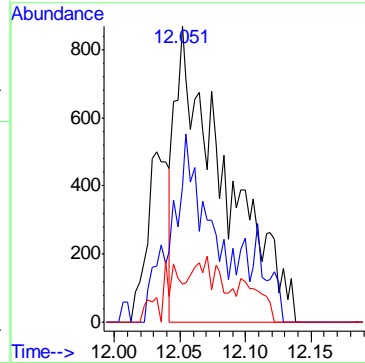
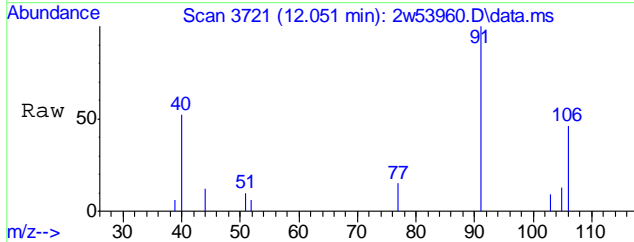
Ion	Ratio	Lower	Upper
91	100		
92	60.3	39.2	79.2





#80
M,P-XYLENE
Concen: 0.11 PPBV
RT: 12.051 min Scan# 3721
Delta R.T. -0.045 min
Lab File: 2w53960.D
Acq: 9 Jun 2021 3:28 pm

Tgt Ion	Resp	Lower	Upper
91	100		
106	63.5	34.7	74.7
105	0.0	4.8	44.8#



7.1.1
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53954.D
 Acq On : 9 Jun 2021 10:53 am
 Operator : thomash
 Sample : mb
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 12:21:51 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.640	128	39766	10.00	PPBV	0.02
52) 1,4-DIFLUOROBENZENE	4.981	114	201781	10.00	PPBV	0.01
76) CHLOROBENZENE-D5	10.698	117	178310	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.090	95	106475	9.65	PPBV	0.00
Target Compounds						Qvalue

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

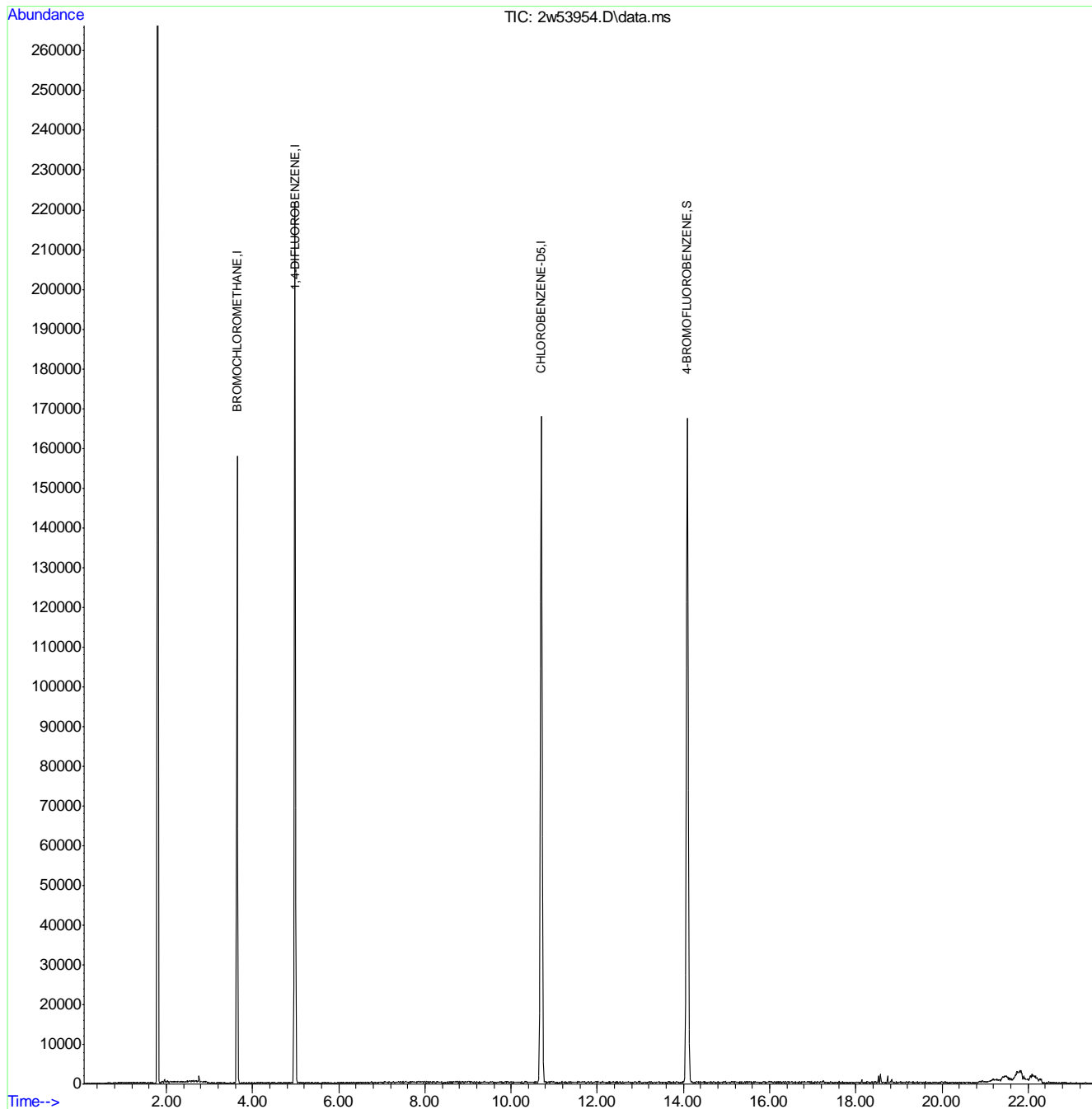
7.2.1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w53954.D
Acq On : 9 Jun 2021 10:53 am
Operator : thomash
Sample : mb
Misc : MS51444,V2W2391,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 12:21:51 2021
Quant Method : C:\msdchem\1\METHODS\M2W2318.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Mar 05 17:31:08 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43872.D
 Acq On : 25 May 2021 11:47 am
 Operator : thomash
 Sample : mb
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 26 09:44:01 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.561	130	122689	10.00	ppb(v)	-0.04
53) 1,4-Difluorobenzene	13.764	114	446284	10.00	ppb(v)	-0.03
76) Chlorobenzene-d5	19.031	82	199328	10.00	ppb(v)	-0.02
108) Bromochloromethane (A)	11.561	130	122689	10.00	ppb(v)	-0.04
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.958	95	251661	10.20	ppb(v)	-0.02
Spiked Amount	10.000	Range 65 - 128	Recovery	=	102.00%	

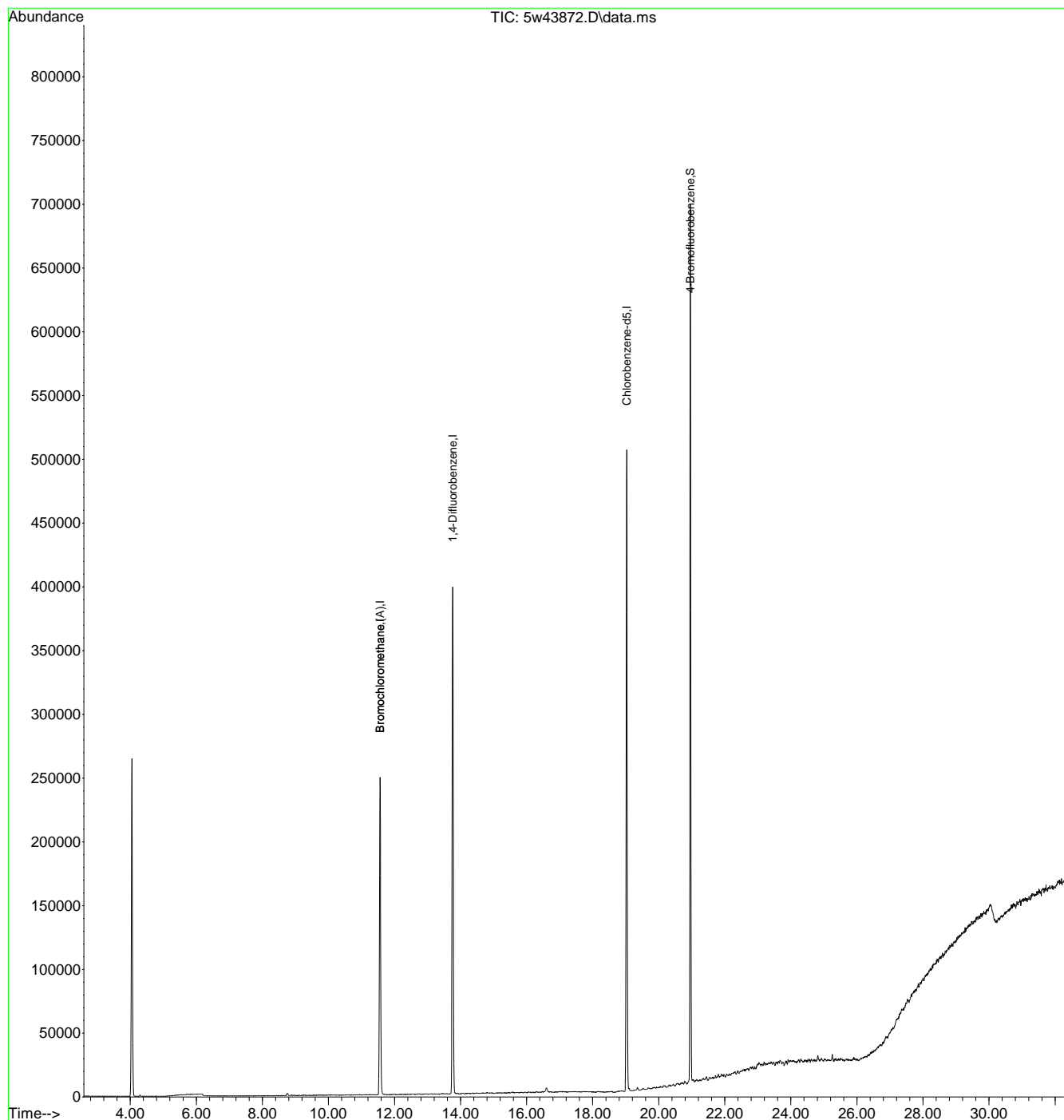
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43872.D
 Acq On : 25 May 2021 11:47 am
 Operator : thomash
 Sample : mb
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 26 09:44:01 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration



7.2.2
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53951.D
 Acq On : 9 Jun 2021 9:08 am
 Operator : thomash
 Sample : bs
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:20 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.637	128	38424	10.00	PPBV	0.01	
52) 1,4-DIFLUOROBENZENE	4.981	114	194967	10.00	PPBV	0.01	
76) CHLOROBENZENE-D5	10.695	117	173860	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	106256	9.88	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.853	65	30855	9.32	PPBV		98
4) CHLORODIFLUOROMETHANE	1.869	67	10042	9.62	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.885	116	73582	8.62	PPBV	#	70
6) DICHLORODIFLUOROMETHANE	1.904	85	135540	11.07	PPBV		99
7) PROPYLENE	1.878	41	35456	9.96	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.955	65	79380	9.52	PPBV		98
9) FREON 114	2.000	85	132223	9.07	PPBV		98
10) CHLOROMETHANE	1.962	52	13542	10.25	PPBV		98
11) VINYL CHLORIDE	2.042	62	52772	9.44	PPBV		99
12) 1,3-BUTADIENE	2.094	54	37592	9.71	PPBV		93
13) N-BUTANE	2.116	43	66454	9.89	PPBV	#	96
14) BROMOMETHANE	2.190	94	51430	8.78	PPBV		98
15) CHLOROETHANE	2.254	64	28245	9.23	PPBV	#	90
16) DICHLOROFLUOROMETHANE	2.287	67	99923	8.89	PPBV		99
17) ACETONITRILE	2.373	41	38466	9.00	PPBV		96
18) ACROLEIN	2.422	56	22618	9.69	PPBV		98
19) FREON 123	2.434	83	114134	8.41	PPBV		99
20) FREON 123A	2.454	117	64086	8.64	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.521	101	105856	9.07	PPBV		99
22) ISOPROPYL ALCOHOL	2.537	45	73017	7.86	PPBV		99
23) ACETONE	2.460	58	23223	7.77	PPBV		88
24) PENTANE	2.634	42	39876	9.17	PPBV		98
25) IODOMETHANE	2.692	142	139038	8.54	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.717	96	48847	8.13	PPBV		97
27) CARBON DISULFIDE	2.852	76	131529	10.26	PPBV	#	96
28) ETHANOL	2.293	45	20248	10.07	PPBV		97
29) BROMOETHENE	2.383	106	49721	8.63	PPBV		98
30) ACRYLONITRILE	2.605	52	30247	9.38	PPBV		100
31) METHYLENE CHLORIDE	2.756	84	47001	8.01	PPBV		95
32) 3-CHLOROPROPENE	2.798	76	24330	8.85	PPBV		89
33) FREON 113	2.852	151	82806	8.26	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.094	96	47667	8.23	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.727	59	81518	9.05	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.206	73	109759	8.17	PPBV		99
37) TETRAHYDROFURAN	3.936	72	23303	8.55	PPBV		86
38) HEXANE	3.695	57	72076	8.52	PPBV		92
39) VINYL ACETATE	3.248	86	13280	9.82	PPBV		67
40) 1,1-DICHLOROETHANE	3.174	63	75989	8.78	PPBV		99
41) METHYL ETHYL KETONE	3.348	72	24201	8.35	PPBV		82
42) CIS-1,2-DICHLOROETHENE	3.557	96	52974	8.23	PPBV		97
43) DIISOPROPYL ETHER	3.695	59	21759	9.04	PPBV		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53951.D
 Acq On : 9 Jun 2021 9:08 am
 Operator : thomash
 Sample : bs
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:20 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.701	61	14851	9.73	PPBV	78
45) METHYL ACRYLATE	3.685	55	86479	9.39	PPBV #	75
46) CHLOROFORM	3.714	83	89123	8.68	PPBV #	83
47) 2,4-DIMETHYLPENTANE	4.232	57	86141	8.67	PPBV	98
48) 1,1,1-TRICHLOROETHANE	4.319	97	81507	9.42	PPBV	99
49) CARBON TETRACHLORIDE	4.759	117	85534	10.71	PPBV	99
50) 1,2-DICHLOROETHANE	4.145	62	50293	9.32	PPBV	99
51) BENZENE	4.640	78	153655	7.89	PPBV	97
53) CYCLOHEXANE	4.862	84	67320	8.20	PPBV	94
54) 2,3-DIMETHYLPENTANE	5.126	71	34134	8.50	PPBV	88
55) TRICHLOROETHENE	5.576	95	64178	8.20	PPBV	98
56) 1,2-DICHLOROPROPANE	5.335	63	55150	8.86	PPBV	98
57) DIBROMOMETHANE	5.293	174	67099	7.96	PPBV	98
58) ETHYL ACRYLATE	5.450	55	105592	9.74	PPBV	98
59) BROMODICHLOROMETHANE	5.518	83	98760	9.96	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.676	57	230867	8.70	PPBV	99
61) 1,4-DIOXANE	5.579	88	35107	7.98	PPBV	96
62) HEPTANE	6.003	43	78523	9.63	PPBV	90
63) METHYL METHACRYLATE	5.888	69	56675	9.00	PPBV	89
64) METHYL ISOBUTYL KETONE	6.643	58	45096	9.27	PPBV	87
65) CIS-1,3-DICHLOROPROPENE	6.547	75	81489	9.72	PPBV	96
66) TOLUENE	7.785	91	187208	7.66	PPBV	99
67) 1,3-DICHLOROPROPANE	7.843	76	87660	8.86	PPBV #	99
68) TRANS-1,3-DICHLOROPROPENE	7.238	75	67682	9.83	PPBV	95
69) 1,1,2-TRICHLOROETHANE	7.402	83	54224	8.77	PPBV	99
70) 2-HEXANONE	8.347	58	58780	8.46	PPBV	87
71) ETHYL METHACRYLATE	8.489	69	90885	10.10	PPBV	94
72) TETRACHLOROETHENE	9.553	164	72927	8.19	PPBV	99
73) DIBROMOCHLOROMETHANE	8.331	129	102607	10.49	PPBV	99
74) 1,2-DIBROMOETHANE	8.682	107	94007	9.05	PPBV	98
75) OCTANE	9.688	43	107020	9.52	PPBV	90
77) 1,1,1,2-TETRACHLOROETHANE	10.785	131	74763	9.79	PPBV	96
78) CHLOROBENZENE	10.775	112	149019	8.26	PPBV	98
79) ETHYLBENZENE	11.669	91	229109	7.51	PPBV	99
80) M,P-XYLENE	12.100	91	339505	15.06	PPBV	99
81) O-XYLENE	13.042	91	175618	7.73	PPBV	99
82) STYRENE	12.826	104	144231	8.32	PPBV	98
83) NONANE	14.157	43	111759	10.37	PPBV	89
84) BROMOFORM	11.910	173	105756	11.24	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.048	83	136006	9.17	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	13.338	75	95568	9.30	PPBV	100
88) ISOPROPYLBENZENE	14.569	120	70692	8.56	PPBV	93
89) BROMOBENZENE	14.440	77	116306	8.86	PPBV	99
90) 2-CHLOROTOLUENE	15.575	126	65594	9.06	PPBV	99
91) N-PROPYLBENZENE	15.913	120	72471	8.83	PPBV	100
92) 4-ETHYLTOLUENE	16.228	105	244958	8.90	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	200762	8.98	PPBV	97
94) ALPHA-METHYLSTYRENE	16.563	118	112117	9.12	PPBV	99
95) TERT-BUTYLBENZENE	16.813	134	54087	8.74	PPBV	97
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	205101	9.35	PPBV	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53951.D
 Acq On : 9 Jun 2021 9:08 am
 Operator : thomash
 Sample : bs
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:20 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

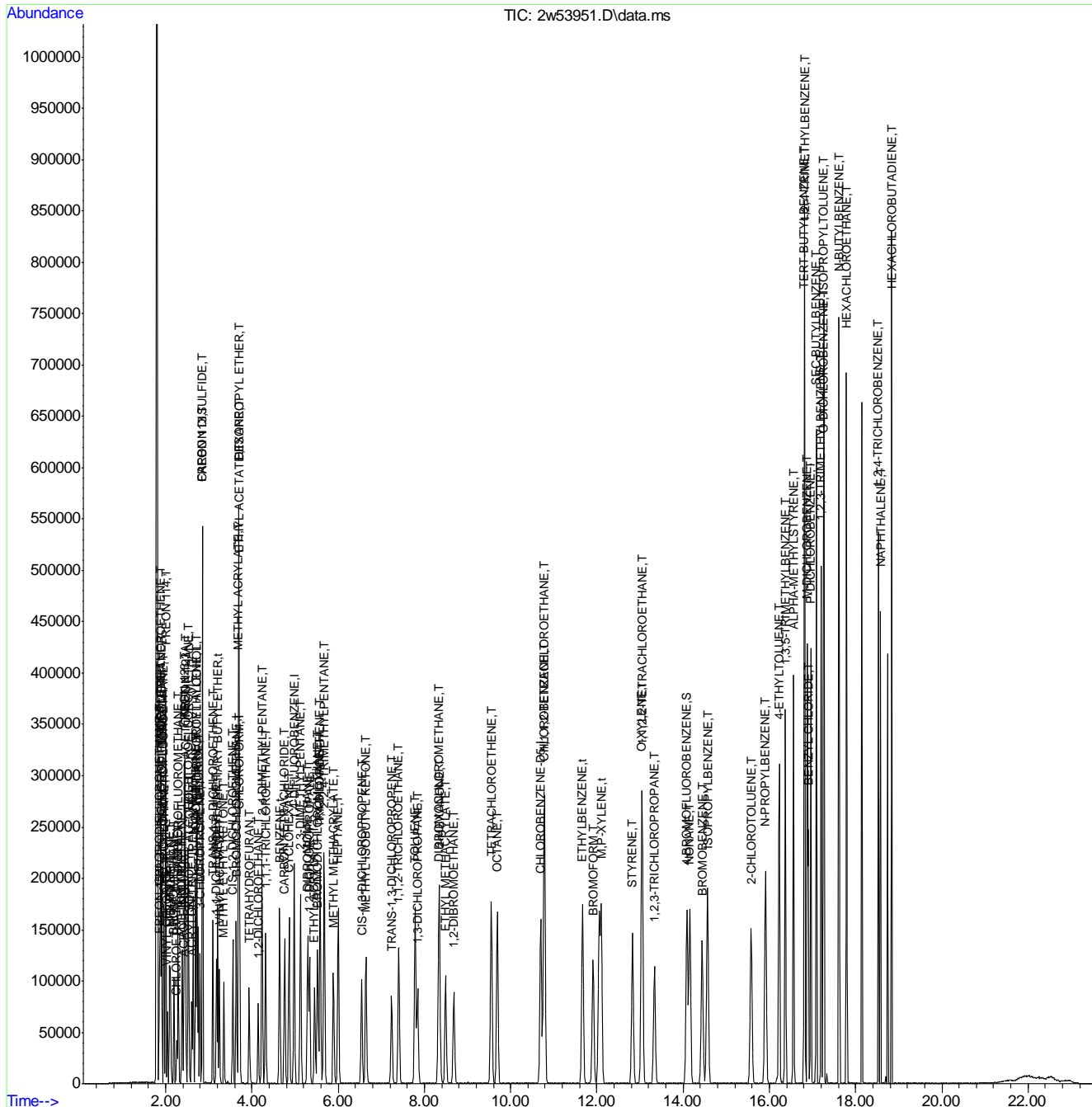
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.903	91	132133	11.77	PPBV	99
98) M-DICHLOROBENZENE	16.878	146	146137	8.91	PPBV	100
99) P-DICHLOROBENZENE	16.961	146	144797	8.85	PPBV	100
100) O-DICHLOROBENZENE	17.254	146	137865	9.11	PPBV	99
101) SEC-BUTYLBENZENE	17.090	134	67432	9.08	PPBV	94
102) 1,2,3-TRIMETHYLBENZENE	17.199	105	201756	9.44	PPBV	98
103) P-ISOPROPYLTOLUENE	17.267	134	73430	9.54	PPBV	97
104) N-BUTYLBENZENE	17.611	134	68123	9.66	PPBV	95
105) HEXACHLOROETHANE	17.791	117	85517	14.04	PPBV	99
106) HEXACHLOROBUTADIENE	18.839	225	92373	10.45	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.527	180	103149	9.34	PPBV	100
108) NAPHTHALENE	18.575	128	209606	8.07	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w53951.D
Acq On : 9 Jun 2021 9:08 am
Operator : thomash
Sample : bs
Misc : MS51444,V2W2391,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:20 2021
Quant Method : C:\msdchem\1\METHODS\M2W2318.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Mar 05 17:31:08 2021
Response via : Initial Calibration



7.3.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53952.D
 Acq On : 9 Jun 2021 9:39 am
 Operator : thomash
 Sample : bsd
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:38 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.644	128	38195	10.00	PPBV	0.02	
52) 1,4-DIFLUOROBENZENE	4.984	114	194019	10.00	PPBV	0.02	
76) CHLOROBENZENE-D5	10.701	117	175174	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	105630	9.75	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.856	65	30071	9.13	PPBV		98
4) CHLORODIFLUOROMETHANE	1.872	67	9432	9.09	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.888	116	70888	8.35	PPBV #		70
6) DICHLORODIFLUOROMETHANE	1.907	85	131385	10.79	PPBV		99
7) PROPYLENE	1.885	41	34319	9.70	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.959	65	76144	9.19	PPBV		98
9) FREON 114	2.004	85	126351	8.71	PPBV		98
10) CHLOROMETHANE	1.965	52	13018	9.92	PPBV		97
11) VINYL CHLORIDE	2.046	62	50303	9.05	PPBV		99
12) 1,3-BUTADIENE	2.097	54	37079	9.63	PPBV		95
13) N-BUTANE	2.116	43	63620	9.52	PPBV #		97
14) BROMOMETHANE	2.193	94	49971	8.58	PPBV		100
15) CHLOROETHANE	2.258	64	27361	8.99	PPBV		97
16) DICHLOROFLUOROMETHANE	2.290	67	96161	8.61	PPBV		100
17) ACETONITRILE	2.377	41	36632	8.62	PPBV		98
18) ACROLEIN	2.422	56	21535	9.29	PPBV		96
19) FREON 123	2.441	83	110403	8.18	PPBV		99
20) FREON 123A	2.457	117	61298	8.31	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.528	101	102173	8.81	PPBV		99
22) ISOPROPYL ALCOHOL	2.541	45	69470	7.52	PPBV		99
23) ACETONE	2.464	58	22210	7.48	PPBV		87
24) PENTANE	2.637	42	38897	9.00	PPBV		98
25) IODOMETHANE	2.695	142	133024	8.22	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.724	96	48008	8.04	PPBV		98
27) CARBON DISULFIDE	2.856	76	126141	9.90	PPBV #		95
28) ETHANOL	2.296	45	18311	9.16	PPBV		99
29) BROMOETHENE	2.386	106	48195	8.42	PPBV		99
30) ACRYLONITRILE	2.608	52	29323	9.14	PPBV		98
31) METHYLENE CHLORIDE	2.759	84	45739	7.84	PPBV		95
32) 3-CHLOROPROPENE	2.801	76	23668	8.66	PPBV		90
33) FREON 113	2.856	151	79678	7.99	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.097	96	46195	8.02	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.730	59	77738	8.68	PPBV #		94
36) METHYL TERTIARY BUTYL ...	3.209	73	106105	7.95	PPBV		98
37) TETRAHYDROFURAN	3.939	72	22298	8.23	PPBV		88
38) HEXANE	3.698	57	70790	8.42	PPBV		95
39) VINYL ACETATE	3.251	86	12368	9.20	PPBV #		61
40) 1,1-DICHLOROETHANE	3.177	63	72908	8.48	PPBV		99
41) METHYL ETHYL KETONE	3.351	72	23318	8.10	PPBV		83
42) CIS-1,2-DICHLOROETHENE	3.563	96	50266	7.85	PPBV		97
43) DIISOPROPYL ETHER	3.698	59	20700	8.65	PPBV		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53952.D
 Acq On : 9 Jun 2021 9:39 am
 Operator : thomash
 Sample : bsd
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:38 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.698	61	13839	9.12	PPBV	73
45) METHYL ACRYLATE	3.692	55	82917	9.06	PPBV	95
46) CHLOROFORM	3.718	83	85759	8.40	PPBV	99
47) 2,4-DIMETHYLPENTANE	4.238	57	82870	8.39	PPBV	98
48) 1,1,1-TRICHLOROETHANE	4.322	97	79088	9.19	PPBV	99
49) CARBON TETRACHLORIDE	4.763	117	82605	10.40	PPBV	99
50) 1,2-DICHLOROETHANE	4.148	62	49308	9.19	PPBV	98
51) BENZENE	4.647	78	148051	7.65	PPBV	97
53) CYCLOHEXANE	4.865	84	64654	7.92	PPBV	94
54) 2,3-DIMETHYLPENTANE	5.132	71	33357	8.35	PPBV	93
55) TRICHLOROETHENE	5.582	95	61726	7.93	PPBV	98
56) 1,2-DICHLOROPROPANE	5.341	63	52752	8.52	PPBV	99
57) DIBROMOMETHANE	5.299	174	65179	7.77	PPBV	99
58) ETHYL ACRYLATE	5.457	55	100955	9.36	PPBV	99
59) BROMODICHLOROMETHANE	5.528	83	95138	9.64	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	222668	8.44	PPBV	100
61) 1,4-DIOXANE	5.589	88	34138	7.80	PPBV	95
62) HEPTANE	6.007	43	74097	9.13	PPBV	92
63) METHYL METHACRYLATE	5.894	69	55092	8.80	PPBV	89
64) METHYL ISOBUTYL KETONE	6.647	58	42933	8.86	PPBV	87
65) CIS-1,3-DICHLOROPROPENE	6.550	75	77959	9.35	PPBV	95
66) TOLUENE	7.791	91	180679	7.43	PPBV	100
67) 1,3-DICHLOROPROPANE	7.846	76	84052	8.54	PPBV #	99
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	65279	9.53	PPBV	95
69) 1,1,2-TRICHLOROETHANE	7.409	83	52304	8.50	PPBV	99
70) 2-HEXANONE	8.354	58	58063	8.40	PPBV	89
71) ETHYL METHACRYLATE	8.492	69	87532	9.78	PPBV	93
72) TETRACHLOROETHENE	9.557	164	70958	8.01	PPBV	99
73) DIBROMOCHLOROMETHANE	8.338	129	100239	10.29	PPBV	99
74) 1,2-DIBROMOETHANE	8.685	107	91618	8.86	PPBV	98
75) OCTANE	9.695	43	104113	9.31	PPBV	89
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	73002	9.49	PPBV	97
78) CHLOROBENZENE	10.785	112	143251	7.88	PPBV	98
79) ETHYLBENZENE	11.672	91	223212	7.26	PPBV	100
80) M,P-XYLENE	12.103	91	333308	14.67	PPBV	98
81) O-XYLENE	13.048	91	168674	7.37	PPBV	99
82) STYRENE	12.833	104	140007	8.02	PPBV	99
83) NONANE	14.161	43	109151	10.05	PPBV	88
84) BROMOFORM	11.913	173	103808	10.95	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.055	83	132478	8.87	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	13.338	75	92515	8.93	PPBV #	100
88) ISOPROPYLBENZENE	14.572	120	69427	8.35	PPBV	94
89) BROMOBENZENE	14.444	77	114308	8.65	PPBV	97
90) 2-CHLOROTOLUENE	15.585	126	62076	8.51	PPBV	100
91) N-PROPYLBENZENE	15.916	120	69949	8.46	PPBV	99
92) 4-ETHYLTOLUENE	16.232	105	237782	8.57	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	196306	8.72	PPBV	97
94) ALPHA-METHYLSTYRENE	16.563	118	110316	8.91	PPBV	99
95) TERT-BUTYLBENZENE	16.813	134	52668	8.45	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	199948	9.05	PPBV	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53952.D
 Acq On : 9 Jun 2021 9:39 am
 Operator : thomash
 Sample : bsd
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:38 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

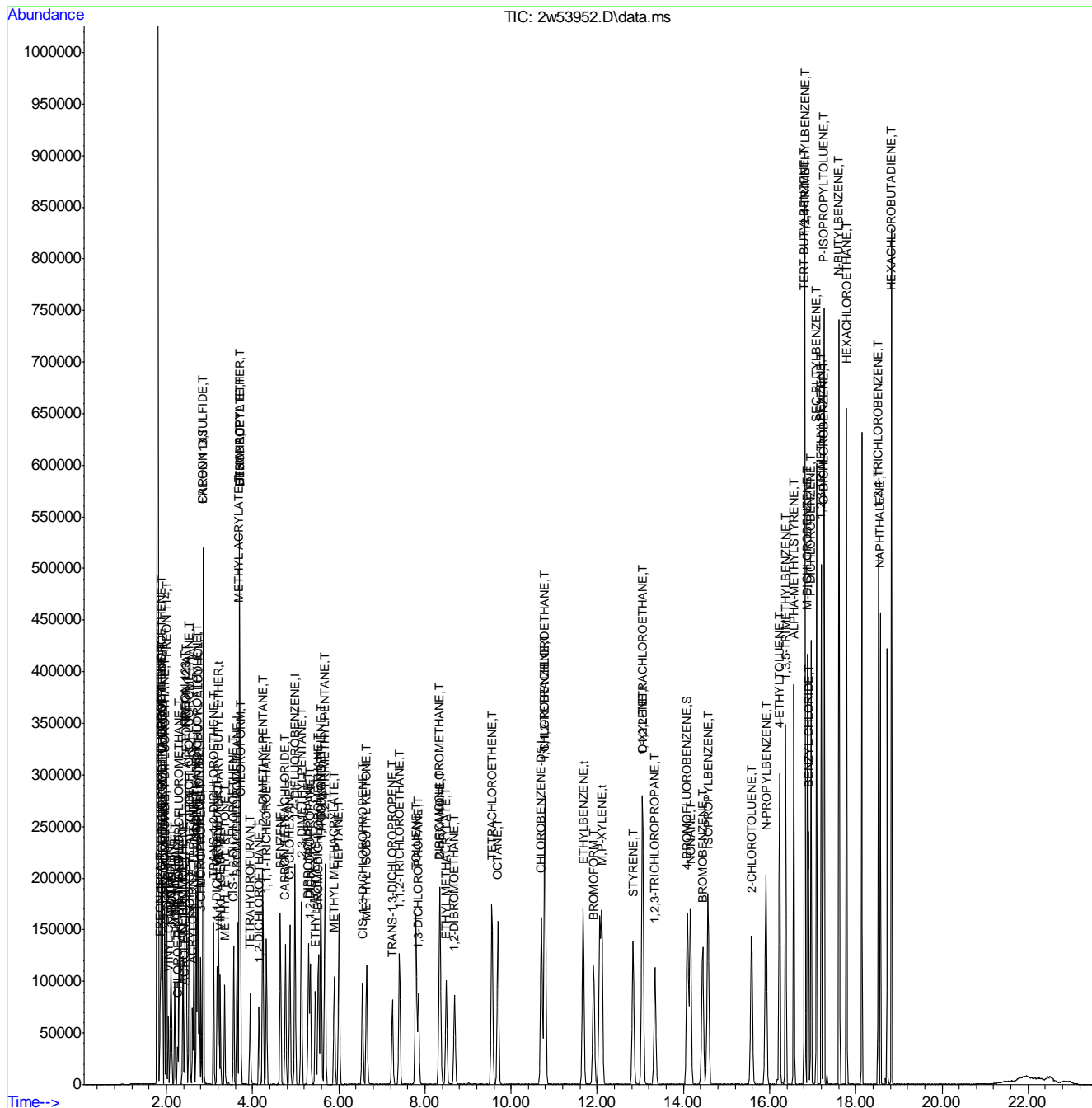
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.903	91	129502	11.45	PPBV	100
98) M-DICHLOROBENZENE	16.878	146	142619	8.63	PPBV	99
99) P-DICHLOROBENZENE	16.961	146	143014	8.68	PPBV	99
100) O-DICHLOROBENZENE	17.251	146	136618	8.96	PPBV	99
101) SEC-BUTYLBENZENE	17.090	134	64700	8.65	PPBV	91
102) 1,2,3-TRIMETHYLBENZENE	17.199	105	198171	9.20	PPBV	97
103) P-ISOPROPYLTOLUENE	17.264	134	71187	9.18	PPBV	96
104) N-BUTYLBENZENE	17.608	134	65843	9.27	PPBV	93
105) HEXACHLOROETHANE	17.788	117	82559	13.45	PPBV	99
106) HEXACHLOROBUTADIENE	18.829	225	92096	10.34	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.521	180	100052	8.99	PPBV	99
108) NAPHTHALENE	18.569	128	208198	7.95	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w53952.D
Acq On : 9 Jun 2021 9:39 am
Operator : thomash
Sample : bsd
Misc : MS51444,V2W2391,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:38 2021
Quant Method : C:\msdchem\1\METHODS\M2W2318.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Mar 05 17:31:08 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43869.D
 Acq On : 25 May 2021 9:01 am
 Operator : thomash
 Sample : bs
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:40:18 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.568	130	118058	10.00	ppb(v)	-0.03
53) 1,4-Difluorobenzene	13.764	114	423495	10.00	ppb(v)	-0.03
76) Chlorobenzene-d5	19.031	82	189862	10.00	ppb(v)	-0.02
108) Bromochloromethane (A)	11.568	130	118058	10.00	ppb(v)	-0.03
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.958	95	240686	10.24	ppb(v)	-0.02
Spiked Amount	10.000	Range 65 - 128	Recovery	=	102.40%	
Target Compounds						
					Qvalue	
2) Freon 152A	4.410	65	64925	10.77	ppb(v)	96
3) Chlorodifluoromethane	4.483	67	25230	11.61	ppb(v)	99
4) Propene	4.306	41	60960	10.45	ppb(v)	99
5) Chlorotrifluoroethene	4.361	116	177961	9.58	ppb(v)	97
6) Dichlorodifluoromethane	4.404	85	294790	9.57	ppb(v)	98
7) 1-Chloro-1,1-difluoro...	4.838	65	190813	10.27	ppb(v)	99
8) Chloromethane	4.832	50	86500	10.08	ppb(v)	100
9) Dichlorotetrafluoroethane	4.728	85	325280	9.73	ppb(v)	97
10) Vinyl Chloride	5.059	62	110139	10.28	ppb(v)	99
11) 1,3-Butadiene	5.120	54	77664	10.91	ppb(v)	98
12) n-Butane	4.942	58	15777	11.87	ppb(v)	92
13) Bromomethane	5.805	94	145473	9.62	ppb(v)	98
14) Chloroethane	6.117	64	60255	10.84	ppb(v)	98
15) Dichlorofluoromethane	6.582	67	279884	9.49	ppb(v)	98
16) Acetonitrile	6.466	41	96534	10.99	ppb(v)	98
17) Freon 123	7.720	83	290757	9.24	ppb(v)	100
18) Freon 123A	7.591	117	146789	8.98	ppb(v)	96
19) Bromoethene	6.380	106	139213	9.61	ppb(v)	98
20) Acrolein	8.264	56	44656	9.20	ppb(v)	98
21) Trichlorofluoromethane	6.453	101	342654	10.11	ppb(v)	99
22) Acetone	8.845	58	48505	9.42	ppb(v)	90
23) Pentane	6.466	57	30770	10.43	ppb(v)	91
24) Iodomethane	7.860	142	388156	8.86	ppb(v)	97
25) Isopropyl Alcohol	8.650	43	33096	9.50	ppb(v)	100
26) 1,1-Dichloroethene	7.579	61	188190	9.68	ppb(v)	97
27) Freon 113	7.689	101	286170	9.16	ppb(v)	97
28) Methylene Chloride	8.760	84	115600	8.62	ppb(v)	96
29) Carbon Disulfide	7.622	76	353651	9.22	ppb(v)	100
30) Ethanol	7.518	45	45346	9.02	ppb(v)	98
31) Acrylonitrile	10.295	53	89785	9.16	ppb(v)	98
32) 3-Chloropropene	8.558	76	58645	9.84	ppb(v)	94
33) trans-1,2-Dichloroethene	9.090	61	167358	9.19	ppb(v)	97
34) tert-Butyl Alcohol	9.506	59	229003	8.98	ppb(v)	99
35) Methyl tert-Butyl Ether	9.329	73	318100	8.57	ppb(v)	96
36) Vinyl Acetate	10.699	43	293733	9.16	ppb(v)	100
37) 1,1-Dichloroethane	10.246	63	214191	9.17	ppb(v)	100
38) 2-Butanone	12.210	72	55412	10.45	ppb(v)	95
39) Hexane	9.280	56	94609	9.68	ppb(v)	96
40) cis-1,2-Dichloroethene	11.219	61	163974	9.24	ppb(v)	99
41) Di-isopropyl Ether	10.057	87	95530	9.36	ppb(v)	86
42) Ethyl Acetate	11.898	61	36827	9.73	ppb(v)	94
43) Methyl Acrylate	11.916	55	201838	9.08	ppb(v)	99
44) Chloroform	11.702	83	262702	9.26	ppb(v)	99
45) 2,4-Dimethylpentane	10.350	57	204749	9.02	ppb(v)	99
46) Tetrahydrofuran	11.990	72	58422	10.03	ppb(v)	97
47) 1,1,1-Trichloroethane	12.082	97	248745	9.19	ppb(v)	99
48) 1,2-Dichloroethane	13.054	62	145284	9.38	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43869.D
 Acq On : 25 May 2021 9:01 am
 Operator : thomash
 Sample : bs
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:40:18 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.724	78	373607	9.49	ppb(v)	99
50) Carbon Tetrachloride	11.972	117	275358	9.49	ppb(v)	99
51) Cyclohexane	11.617	56	172012	8.75	ppb(v)	99
52) 2,3-Dimethylpentane	11.788	71	78558	9.94	ppb(v)	98
54) 2,2,4-Trimethylpentane	12.504	57	550219	8.45	ppb(v)	100
55) Heptane	12.681	71	117910	8.79	ppb(v)	98
56) Trichloroethene	13.740	97	115189	8.92	ppb(v)	98
57) 1,2-Dichloropropane	14.633	63	143390	8.65	ppb(v)	97
58) Dibromomethane	14.468	174	179172	9.12	ppb(v)	93
59) Ethyl Acrylate	14.627	55	271785	9.05	ppb(v)	98
60) Methyl Methacrylate	14.981	69	137807	9.53	ppb(v)	94
61) 1,4-Dioxane	15.067	88	87396	8.37	ppb(v)	95
62) Bromodichloromethane	14.737	83	286428	8.90	ppb(v)	100
63) cis-1,3-Dichloropropene	15.844	75	230581	8.45	ppb(v)	98
64) 4-Methyl-2-pentanone	16.921	58	113768	8.77	ppb(v)	93
65) trans-1,3-Dichloropropene	17.000	75	206147	8.28	ppb(v)	99
66) Toluene	16.291	91	443001	8.19	ppb(v)	100
67) 1,1,2-Trichloroethane	17.300	97	167085	9.07	ppb(v)	98
68) 1,3-Dichloropropane	17.808	76	214317	8.93	ppb(v)	95
69) 2-Hexanone	18.456	43	249083	7.64	ppb(v)	95
70) Ethyl Methacrylate	17.269	69	222501	9.50	ppb(v)	96
71) Dibromochloromethane	17.649	129	317971	9.58	ppb(v)	100
72) Tetrachloroethene	17.006	166	246307	9.80	ppb(v)	98
73) 1,2-Dibromoethane	18.101	107	274161	9.47	ppb(v)	98
74) Octane	15.960	43	259435	8.74	ppb(v)	91
75) 1,1,1,2-Tetrachloroethane	19.166	131	212583	9.69	ppb(v)	99
77) Chlorobenzene	19.062	112	366604	9.46	ppb(v)	96
78) Ethylbenzene	19.105	91	569111	9.07	ppb(v)	98
79) m,p-Xylene	19.349	91	842886	18.19	ppb(v)	98
80) Styrene	20.133	104	336200	9.74	ppb(v)	99
81) Nonane	18.921	43	270920	7.86	ppb(v)	95
82) o-Xylene	20.059	91	425728	8.97	ppb(v)	100
83) Bromoform	20.188	173	311088	10.08	ppb(v)	99
84) 1,1,2,2-Tetrachloroethane	21.221	83	359456	9.08	ppb(v)	99
85) 1,2,3-Trichloropropane	21.423	75	260940	9.05	ppb(v)	99
86) Isopropylbenzene	20.542	105	607553	9.44	ppb(v)	98
87) Bromobenzene	21.124	156	215956	10.36	ppb(v)	97
88) 2-Chlorotoluene	21.374	126	155728	9.82	ppb(v)	97
89) n-Propylbenzene	21.148	120	166039	10.00	ppb(v)	98
91) 4-Ethyltoluene	21.295	105	584041	9.74	ppb(v)	99
92) 1,3,5-Trimethylbenzene	21.411	105	471415	9.64	ppb(v)	98
93) alpha-Methylstyrene	21.754	118	250223	10.29	ppb(v)	99
94) tert-Butylbenzene	21.852	134	104747	9.58	ppb(v)	97
95) 1,2,4-Trimethylbenzene	21.937	105	459222	9.77	ppb(v)	98
96) 1,3-Dichlorobenzene	22.378	146	333776	10.52	ppb(v)	98
97) 1,2,3-trimethylbenzene	22.506	105	445972	9.52	ppb(v)	99
98) Benzyl Chloride	22.781	126	94345	10.95	ppb(v)	86
99) 1,4-Dichlorobenzene	22.488	146	338777	11.03	ppb(v)	98
100) sec-Butylbenzene	22.090	134	128640	9.20	ppb(v)	99
101) p-Isopropyltoluene	22.261	134	143770	9.60	ppb(v)	95
102) 1,2-Dichlorobenzene	23.008	146	317345	10.38	ppb(v)	97
103) n-Butylbenzene	22.788	134	131451	9.82	ppb(v)	85
104) Hexachloroethane	22.996	201	184252	9.74	ppb(v)	92
105) 1,2,4-Trichlorobenzene	24.813	180	181651	11.79	ppb(v)	98
106) Naphthalene	25.247	128	339201	12.41	ppb(v)	99
107) Hexachlorobutadiene	24.758	225	184326	8.50	ppb(v)	99
109) TVHC as equiv Pentane	6.459	TIC	1272237	11.64	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43869.D
Acq On : 25 May 2021 9:01 am
Operator : thomash
Sample : bs
Misc : ms51023,v5w1802,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:40:18 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration

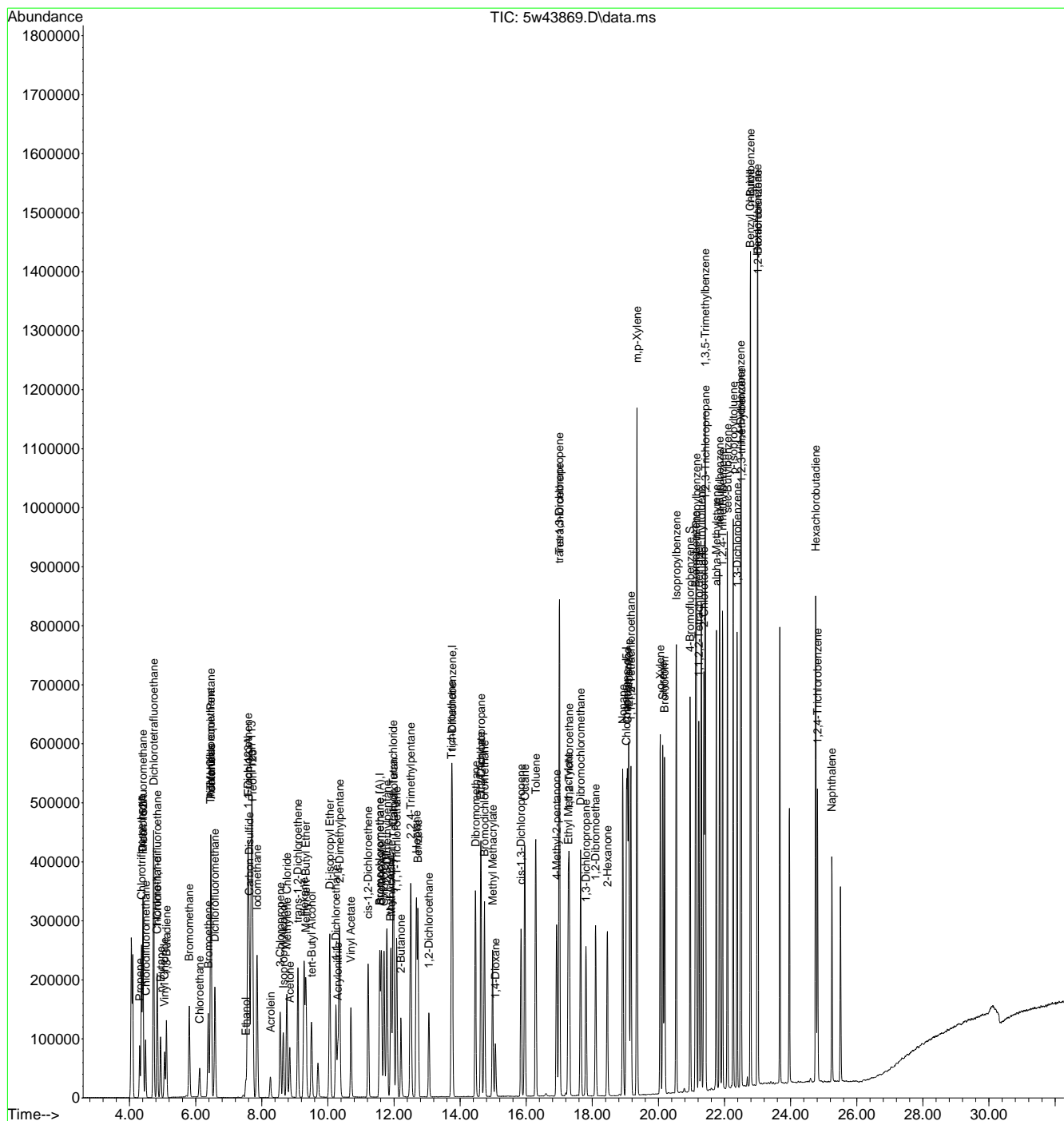
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43869.D
Acq On : 25 May 2021 9:01 am
Operator : thomash
Sample : bs
Misc : ms51023,v5w1802,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:40:18 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration



7.3.3
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43870.D
 Acq On : 25 May 2021 9:49 am
 Operator : thomash
 Sample : bsd
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 10:30:18 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.574	130	118818	10.00	ppb(v)	-0.02
53) 1,4-Difluorobenzene	13.770	114	427958	10.00	ppb(v)	-0.02
76) Chlorobenzene-d5	19.031	82	190349	10.00	ppb(v)	-0.02
108) Bromochloromethane (A)	11.574	130	118818	10.00	ppb(v)	-0.02
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.958	95	242746	10.30	ppb(v)	-0.02
Spiked Amount	10.000	Range 65 - 128	Recovery	=	103.00%	
Target Compounds						
					Qvalue	
2) Freon 152A	4.416	65	65787	10.85	ppb(v)	98
3) Chlorodifluoromethane	4.489	67	25832	11.81	ppb(v)	99
4) Propene	4.306	41	63425	10.80	ppb(v)	98
5) Chlorotrifluoroethene	4.361	116	179439	9.60	ppb(v)	97
6) Dichlorodifluoromethane	4.410	85	300424	9.69	ppb(v)	99
7) 1-Chloro-1,1-difluoro...	4.838	65	192283	10.28	ppb(v)	98
8) Chloromethane	4.838	50	88692	10.27	ppb(v)	98
9) Dichlorotetrafluoroethane	4.728	85	329531	9.80	ppb(v)	97
10) Vinyl Chloride	5.058	62	113323	10.51	ppb(v)	100
11) 1,3-Butadiene	5.120	54	80785	11.27	ppb(v)	98
12) n-Butane	4.942	58	16331	12.21	ppb(v)	83
13) Bromomethane	5.811	94	146577	9.64	ppb(v)	98
14) Chloroethane	6.123	64	61740	11.03	ppb(v)	100
15) Dichlorofluoromethane	6.588	67	271596	9.15	ppb(v)	100
16) Acetonitrile	6.472	41	89134	10.08	ppb(v)	97
17) Freon 123	7.720	83	288251	9.10	ppb(v)	94
18) Freon 123A	7.591	117	148212	9.01	ppb(v)	98
19) Bromoethene	6.386	106	130906	8.98	ppb(v)	99
20) Acrolein	8.258	56	44935	9.20	ppb(v)	99
21) Trichlorofluoromethane	6.459	101	312519	9.16	ppb(v)	98
22) Acetone	8.839	58	48701	9.39	ppb(v)	90
23) Pentane	6.472	57	28969	9.75	ppb(v)	93
24) Iodomethane	7.860	142	391328	8.87	ppb(v)	98
25) Isopropyl Alcohol	8.637	43	32571	9.29	ppb(v)	96
26) 1,1-Dichloroethene	7.579	61	188461	9.63	ppb(v)	97
27) Freon 113	7.695	101	286875	9.12	ppb(v)	96
28) Methylene Chloride	8.760	84	115368	8.55	ppb(v)	97
29) Carbon Disulfide	7.628	76	352193	9.13	ppb(v)	99
30) Ethanol	7.505	45	44320	8.76	ppb(v)	99
31) Acrylonitrile	10.295	53	90286	9.15	ppb(v)	99
32) 3-Chloropropene	8.564	76	58756	9.80	ppb(v)	97
33) trans-1,2-Dichloroethene	9.096	61	168451	9.19	ppb(v)	98
34) tert-Butyl Alcohol	9.494	59	228454	8.90	ppb(v)	99
35) Methyl tert-Butyl Ether	9.329	73	318643	8.53	ppb(v)	96
36) Vinyl Acetate	10.699	43	290950	9.02	ppb(v)	99
37) 1,1-Dichloroethane	10.246	63	214412	9.12	ppb(v)	100
38) 2-Butanone	12.210	72	56864	10.66	ppb(v)	99
39) Hexane	9.286	56	95124	9.67	ppb(v)	96
40) cis-1,2-Dichloroethene	11.219	61	164699	9.22	ppb(v)	99
41) Di-isopropyl Ether	10.057	87	95787	9.32	ppb(v)	85
42) Ethyl Acetate	11.898	61	37232	9.78	ppb(v)	95
43) Methyl Acrylate	11.916	55	202311	9.04	ppb(v)	99
44) Chloroform	11.702	83	265872	9.31	ppb(v)	99
45) 2,4-Dimethylpentane	10.356	57	207055	9.06	ppb(v)	99
46) Tetrahydrofuran	11.990	72	59669	10.17	ppb(v)	96
47) 1,1,1-Trichloroethane	12.081	97	253524	9.31	ppb(v)	99
48) 1,2-Dichloroethane	13.060	62	146550	9.40	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43870.D
 Acq On : 25 May 2021 9:49 am
 Operator : thomash
 Sample : bsd
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 10:30:18 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.724	78	377241	9.52	ppb(v)	99
50) Carbon Tetrachloride	11.977	117	279889	9.59	ppb(v)	99
51) Cyclohexane	11.623	56	173558	8.77	ppb(v)	99
52) 2,3-Dimethylpentane	11.788	71	79473	10.00	ppb(v)	96
54) 2,2,4-Trimethylpentane	12.510	57	548253	8.33	ppb(v)	99
55) Heptane	12.681	71	117590	8.67	ppb(v)	99
56) Trichloroethene	13.739	97	116818	8.95	ppb(v)	98
57) 1,2-Dichloropropane	14.633	63	145626	8.69	ppb(v)	97
58) Dibromomethane	14.467	174	182912	9.22	ppb(v)	94
59) Ethyl Acrylate	14.626	55	274745	9.05	ppb(v)	98
60) Methyl Methacrylate	14.981	69	138419	9.48	ppb(v)	95
61) 1,4-Dioxane	15.067	88	88491	8.38	ppb(v)	95
62) Bromodichloromethane	14.743	83	290828	8.95	ppb(v)	99
63) cis-1,3-Dichloropropene	15.850	75	232969	8.45	ppb(v)	97
64) 4-Methyl-2-pentanone	16.921	58	116540	8.89	ppb(v)	93
65) trans-1,3-Dichloropropene	17.006	75	208704	8.30	ppb(v)	98
66) Toluene	16.290	91	455527	8.33	ppb(v)	100
67) 1,1,2-Trichloroethane	17.300	97	170850	9.18	ppb(v)	98
68) 1,3-Dichloropropane	17.808	76	217123	8.95	ppb(v)	95
69) 2-Hexanone	18.456	43	253454	7.69	ppb(v)	95
70) Ethyl Methacrylate	17.269	69	226812	9.59	ppb(v)	96
71) Dibromochloromethane	17.649	129	326167	9.72	ppb(v)	99
72) Tetrachloroethene	17.006	166	254299	10.01	ppb(v)	98
73) 1,2-Dibromoethane	18.101	107	278570	9.52	ppb(v)	98
74) Octane	15.960	43	262553	8.75	ppb(v)	89
75) 1,1,1,2-Tetrachloroethane	19.166	131	214535	9.67	ppb(v)	98
77) Chlorobenzene	19.068	112	370540	9.54	ppb(v)	97
78) Ethylbenzene	19.105	91	571433	9.08	ppb(v)	98
79) m,p-Xylene	19.349	91	857534	18.46	ppb(v)	98
80) Styrene	20.132	104	343087	9.91	ppb(v)	99
81) Nonane	18.921	43	270562	7.83	ppb(v)	96
82) o-Xylene	20.059	91	437281	9.19	ppb(v)	100
83) Bromoform	20.187	173	318758	10.30	ppb(v)	99
84) 1,1,2,2-Tetrachloroethane	21.221	83	368701	9.29	ppb(v)	99
85) 1,2,3-Trichloropropane	21.423	75	272827	9.44	ppb(v)	99
86) Isopropylbenzene	20.542	105	619397	9.60	ppb(v)	99
87) Bromobenzene	21.123	156	217763	10.42	ppb(v)	98
88) 2-Chlorotoluene	21.374	126	158754	9.99	ppb(v)	94
89) n-Propylbenzene	21.148	120	168553	10.12	ppb(v)	100
91) 4-Ethyltoluene	21.301	105	597855	9.95	ppb(v)	100
92) 1,3,5-Trimethylbenzene	21.411	105	476375	9.72	ppb(v)	99
93) alpha-Methylstyrene	21.754	118	255561	10.48	ppb(v)	99
94) tert-Butylbenzene	21.851	134	107052	9.77	ppb(v)	97
95) 1,2,4-Trimethylbenzene	21.937	105	468234	9.94	ppb(v)	99
96) 1,3-Dichlorobenzene	22.378	146	340415	10.70	ppb(v)	98
97) 1,2,3-trimethylbenzene	22.506	105	462888	9.86	ppb(v)	99
98) Benzyl Chloride	22.781	126	97744	11.32	ppb(v)	84
99) 1,4-Dichlorobenzene	22.488	146	348467	11.32	ppb(v)	98
100) sec-Butylbenzene	22.090	134	134251	9.57	ppb(v)	99
101) p-Isopropyltoluene	22.261	134	147229	9.81	ppb(v)	97
102) 1,2-Dichlorobenzene	23.008	146	324116	10.57	ppb(v)	98
103) n-Butylbenzene	22.787	134	135100	10.07	ppb(v)	84
104) Hexachloroethane	22.995	201	188587	9.94	ppb(v)	90
105) 1,2,4-Trichlorobenzene	24.812	180	186555	12.07	ppb(v)	99
106) Naphthalene	25.247	128	346578	12.65	ppb(v)	99
107) Hexachlorobutadiene	24.763	225	188520	8.67	ppb(v)	99
109) TVHC as equiv Pentane	6.465	TIC	1165275	10.59	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43870.D
Acq On : 25 May 2021 9:49 am
Operator : thomash
Sample : bsd
Misc : ms51023,v5w1802,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 10:30:18 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration

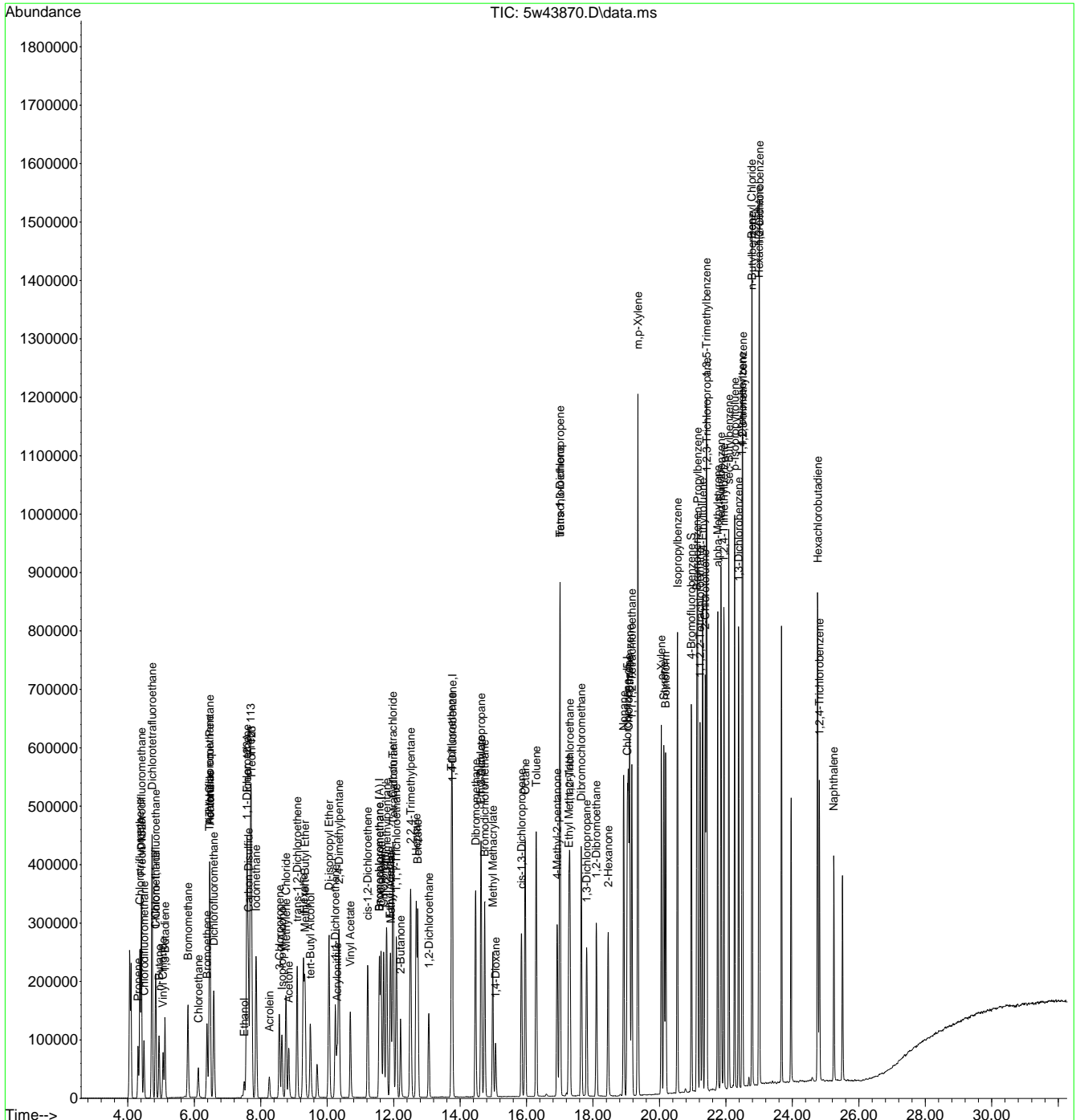
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43870.D
Acq On : 25 May 2021 9:49 am
Operator : thomash
Sample : bsd
Misc : ms51023,v5w1802,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 10:30:18 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration



7.3.4
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53959.D
 Acq On : 9 Jun 2021 2:58 pm
 Operator : thomash
 Sample : jd26149-1dup
 Misc : MS51317,V2W2391,100,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 09:14:46 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

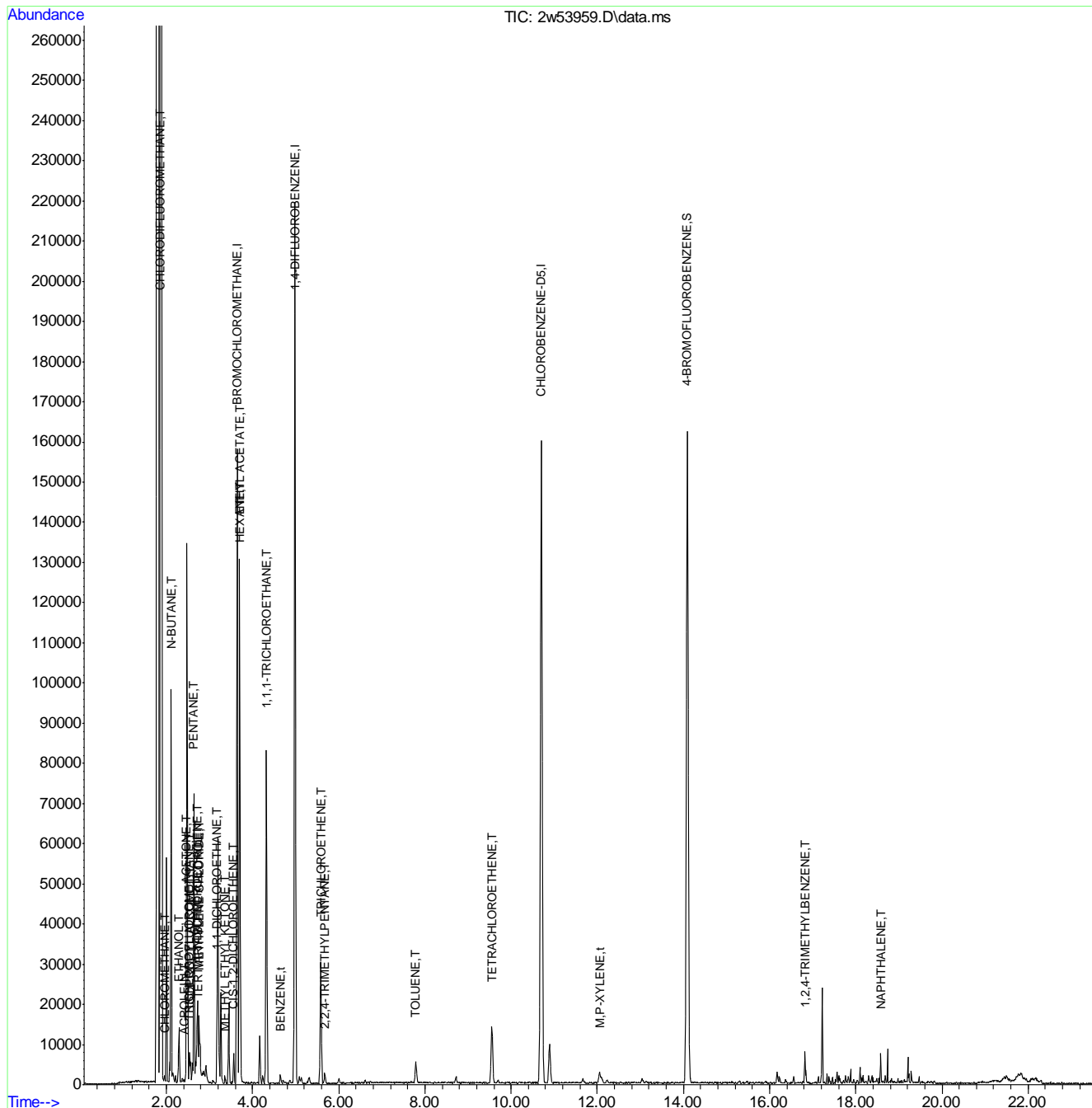
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.643	128	38305	10.00	PPBV	0.02	
52) 1,4-DIFLUOROBENZENE	4.984	114	193828	10.00	PPBV	0.02	
76) CHLOROBENZENE-D5	10.701	117	171030	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	103453	9.78	PPBV	0.00	
Target Compounds							
4) CHLORODIFLUOROMETHANE	1.865	67	197549	189.75	PPBV	95	Qvalue
10) CHLOROMETHANE	1.962	52	154	0.12	PPBV	94	
13) N-BUTANE	2.113	43	59815	8.93	PPBV #	98	
18) ACROLEIN	2.418	56	243	0.10	PPBV	96	
21) TRICHLOROFLUOROMETHANE	2.525	101	1492	0.13	PPBV #	98	
22) ISOPROPYL ALCOHOL	2.541	45	5316	0.57	PPBV #	92	
23) ACETONE	2.463	58	10301	3.46	PPBV #	1	
24) PENTANE	2.637	42	15701	3.62	PPBV	96	
26) 1,1-DICHLOROETHYLENE	2.724	96	3852	0.64	PPBV	97	
28) ETHANOL	2.290	45	11169	5.57	PPBV	98	
31) METHYLENE CHLORIDE	2.759	84	4605	0.79	PPBV	93	
35) TERTIARY BUTYL ALCOHOL	2.734	59	1940	0.22	PPBV #	66	
38) HEXANE	3.698	57	15215	1.80	PPBV	91	
40) 1,1-DICHLOROETHANE	3.177	63	11204	1.30	PPBV	99	
41) METHYL ETHYL KETONE	3.361	72	424	0.15	PPBV #	34	
42) CIS-1,2-DICHLOROETHENE	3.563	96	2802	0.44	PPBV	99	
44) ETHYL ACETATE	3.701	61	13733	9.03	PPBV #	1	
48) 1,1,1-TRICHLOROETHANE	4.319	97	46855	5.43	PPBV	98	
51) BENZENE	4.650	78	1891	0.10	PPBV	97	
55) TRICHLOROETHENE	5.582	95	10813	1.39	PPBV	97	
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	2720	0.10	PPBV #	92	
66) TOLUENE	7.788	91	5815	0.24	PPBV	94	
72) TETRACHLOROETHENE	9.553	164	5677	0.64	PPBV	98	
80) M,P-XYLENE	12.064	91	4279	0.19	PPBV	98	
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	3596	0.17	PPBV #	31	
108) NAPHTHALENE	18.579	128	3064	0.12	PPBV	99	

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

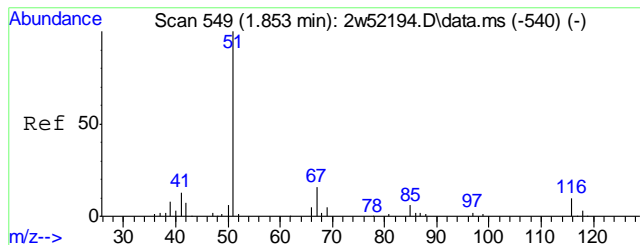
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53959.D
 Acq On : 9 Jun 2021 2:58 pm
 Operator : thomash
 Sample : jd26149-1dup
 Misc : MS51317,V2W2391,100,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 09:14:46 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

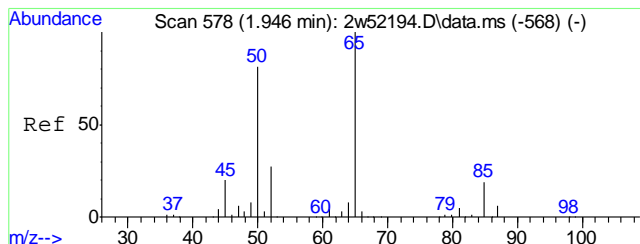
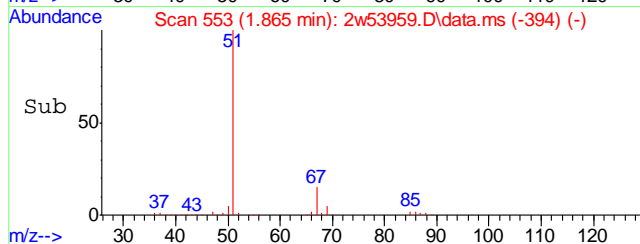
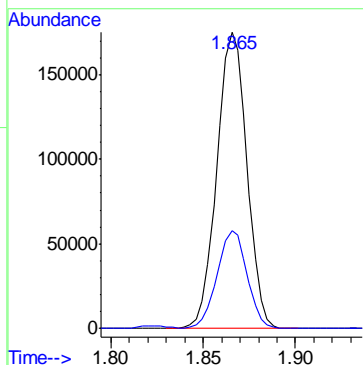
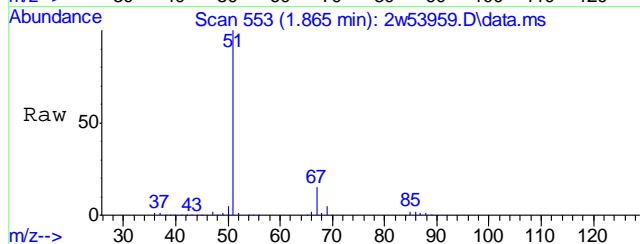


7.4.1
7



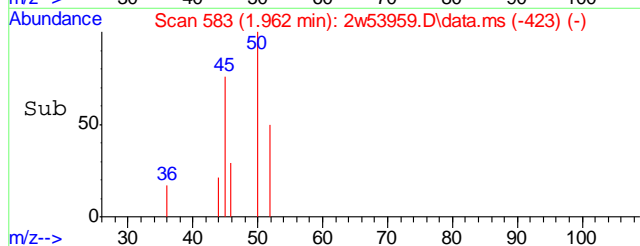
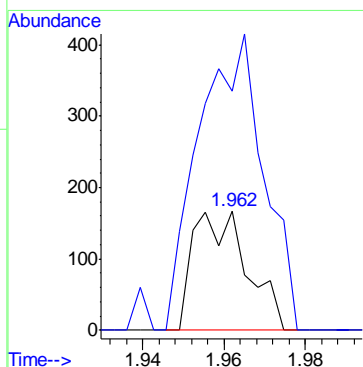
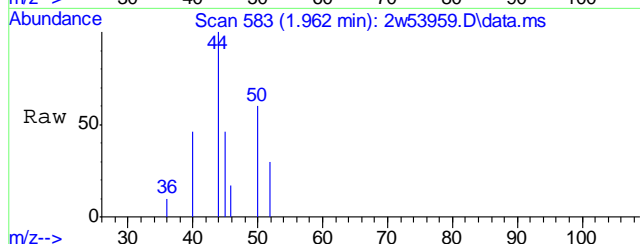
#4
 CHLORODIFLUOROMETHANE
 Concen: 189.75 PPBV
 RT: 1.865 min Scan# 553
 Delta R.T. 0.013 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

Tgt Ion: 67 Resp: 197549
 Ion Ratio Lower Upper
 67 100
 69 32.9 28.6 43.0

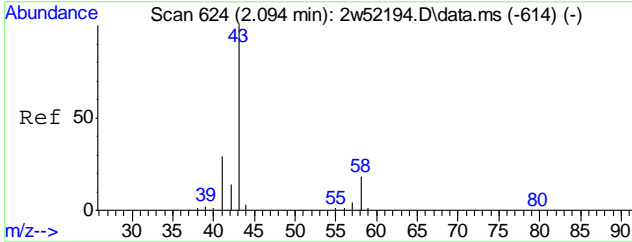


#10
 CHLOROMETHANE
 Concen: 0.12 PPBV
 RT: 1.962 min Scan# 583
 Delta R.T. 0.016 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

Tgt Ion: 52 Resp: 154
 Ion Ratio Lower Upper
 52 100
 50 300.0 249.7 374.5

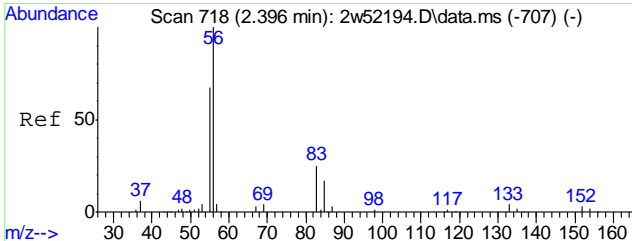
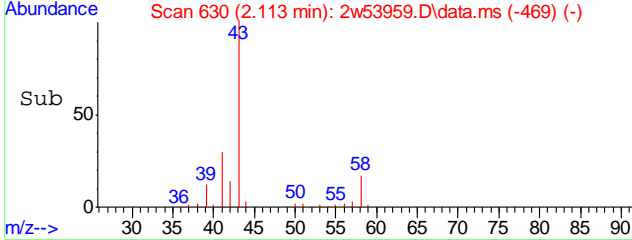
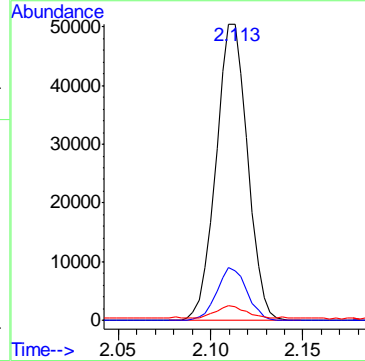
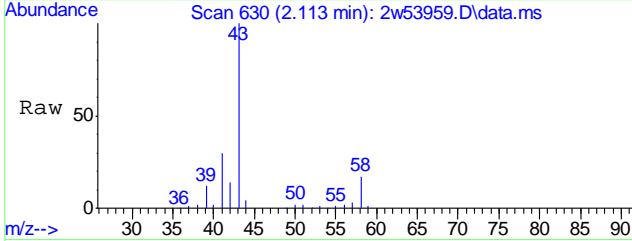


7.4.1
7



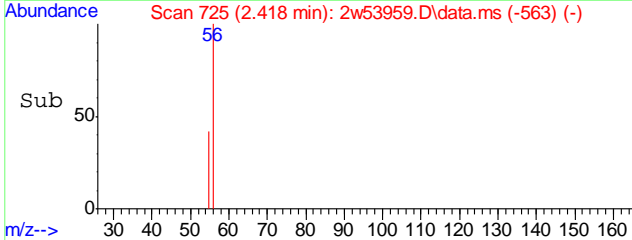
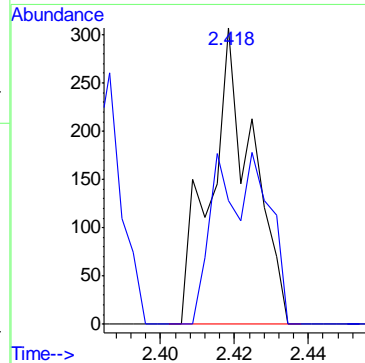
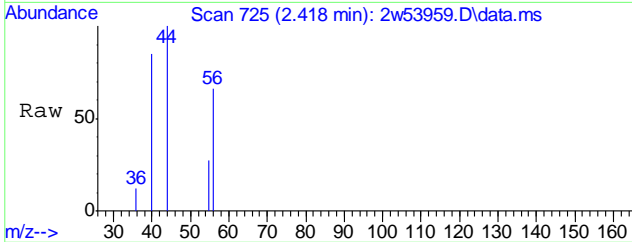
#13
 N-BUTANE
 Concen: 8.93 PPBV
 RT: 2.113 min Scan# 630
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

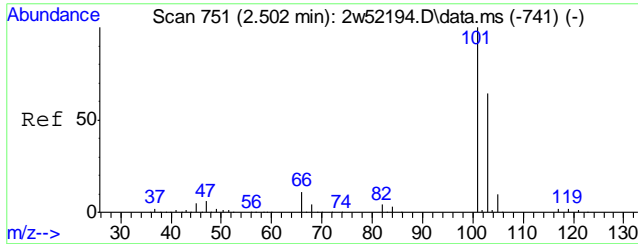
Tgt Ion	Resp	Lower	Upper
43	59815		
58	16.9	14.3	21.5
44	4.5	0.0	0.0#



#18
 ACROLEIN
 Concen: 0.10 PPBV
 RT: 2.418 min Scan# 725
 Delta R.T. 0.022 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

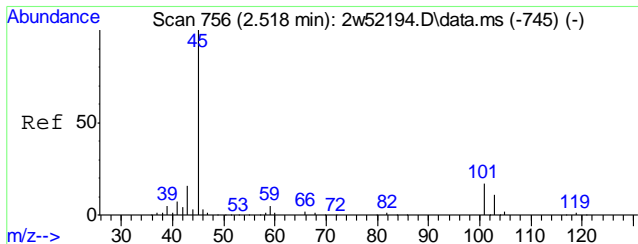
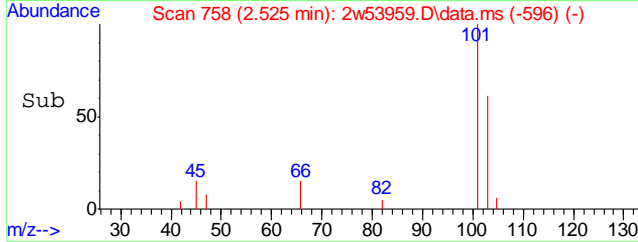
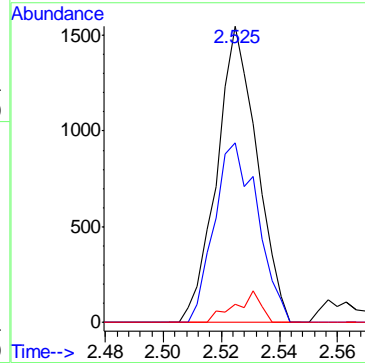
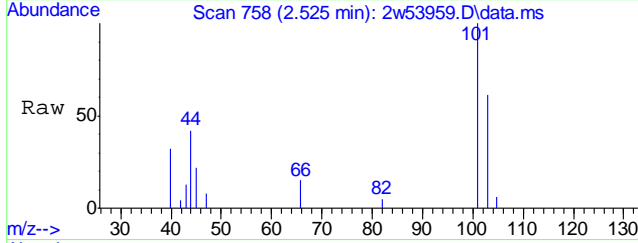
Tgt Ion	Resp	Lower	Upper
56	243		
55	71.6	54.8	82.2





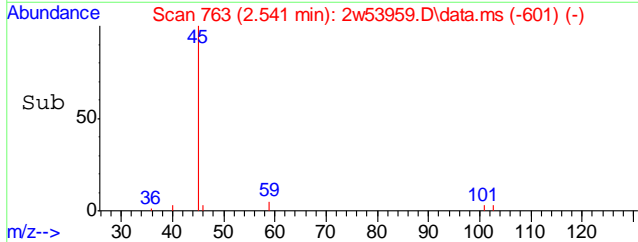
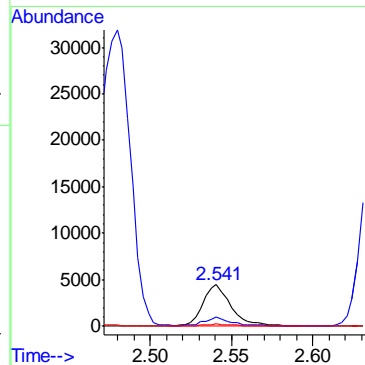
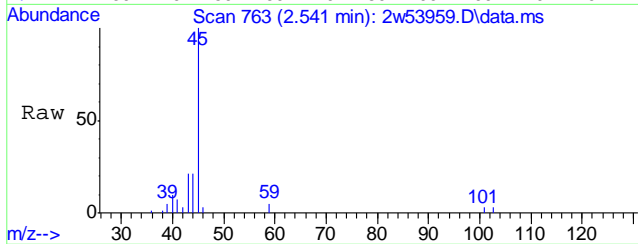
#21
 TRICHLOROFLUOROMETHANE
 Concen: 0.13 PPBV
 RT: 2.525 min Scan# 758
 Delta R.T. 0.022 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

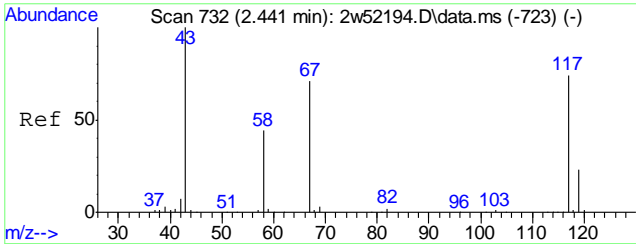
Tgt Ion	Resp	Lower	Upper
101	1492		
103	65.3	51.9	77.9
105	6.9	8.4	12.6#



#22
 ISOPROPYL ALCOHOL
 Concen: 0.57 PPBV
 RT: 2.541 min Scan# 763
 Delta R.T. 0.022 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

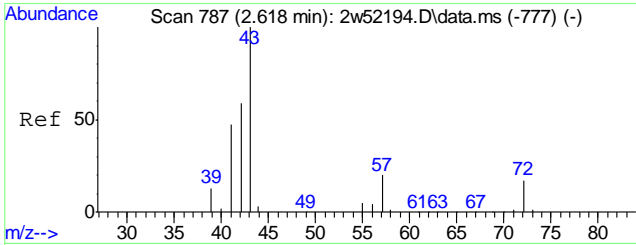
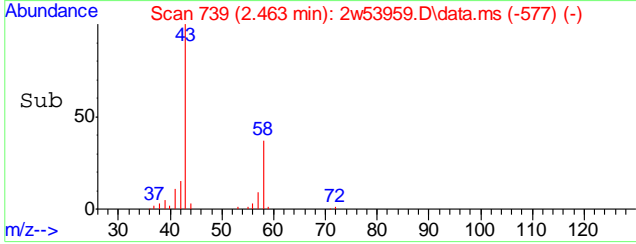
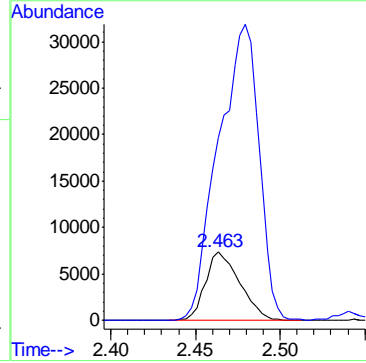
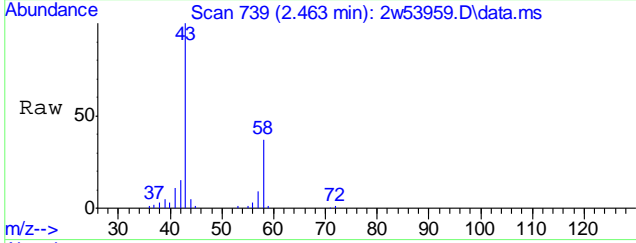
Tgt Ion	Resp	Lower	Upper
45	5316		
43	21.1	13.5	20.3#
59	4.8	3.9	5.9





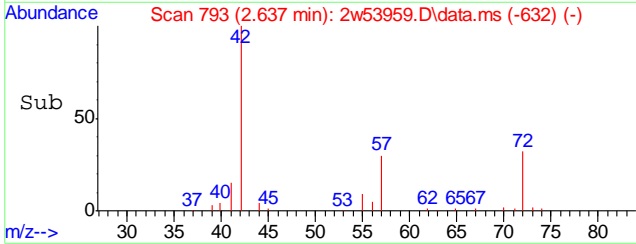
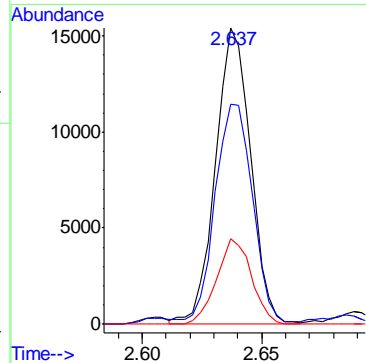
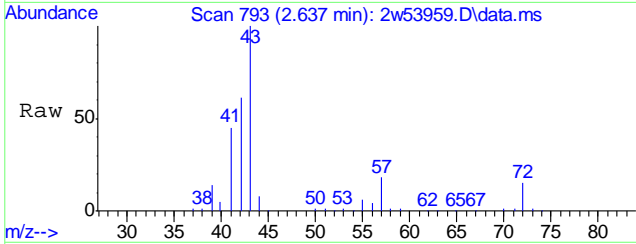
#23
 ACETONE
 Concen: 3.46 PPBV
 RT: 2.463 min Scan# 739
 Delta R.T. 0.022 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

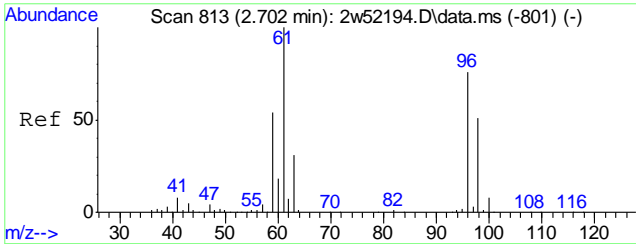
Tgt Ion: 58 Resp: 10301
 Ion Ratio Lower Upper
 58 100
 43 515.8 185.3 277.9#



#24
 PENTANE
 Concen: 3.62 PPBV
 RT: 2.637 min Scan# 793
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

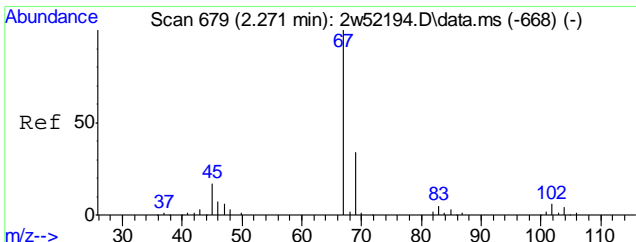
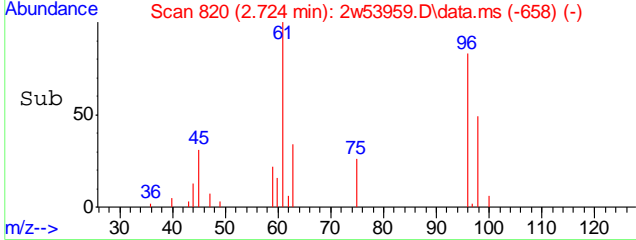
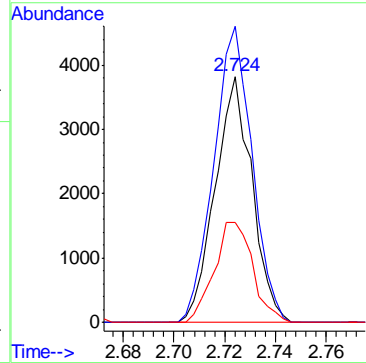
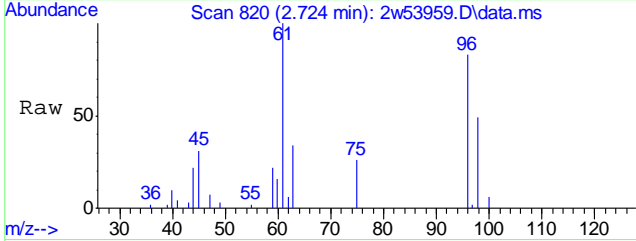
Tgt Ion: 42 Resp: 15701
 Ion Ratio Lower Upper
 42 100
 41 79.1 65.1 97.7
 57 28.3 26.2 39.2





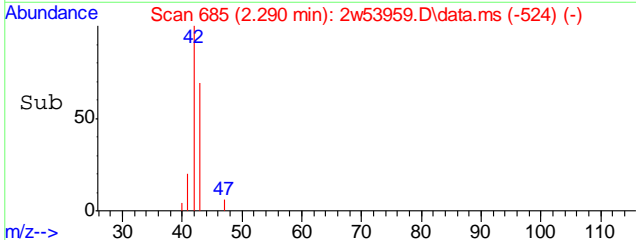
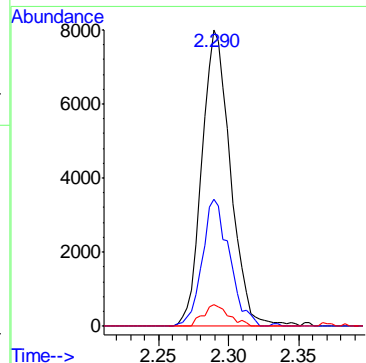
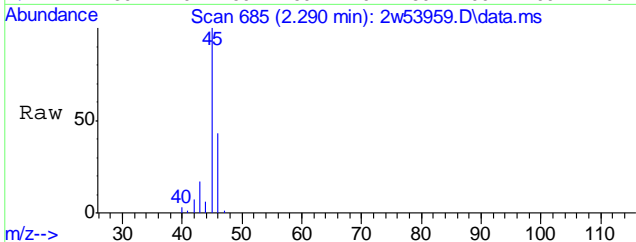
#26
 1,1-DICHLOROETHYLENE
 Concen: 0.64 PPBV
 RT: 2.724 min Scan# 820
 Delta R.T. 0.022 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

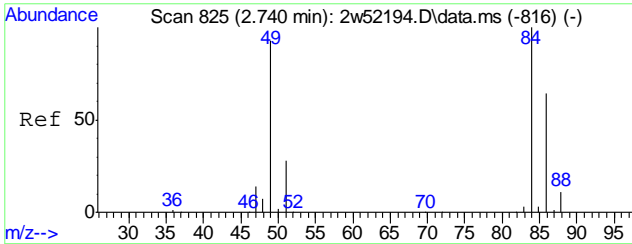
Tgt Ion	Resp	Lower	Upper
96	3852		
96	100		
61	124.9	103.2	154.8
63	42.4	33.6	50.4



#28
 ETHANOL
 Concen: 5.57 PPBV
 RT: 2.290 min Scan# 685
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

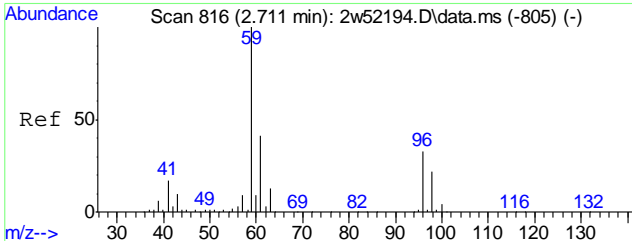
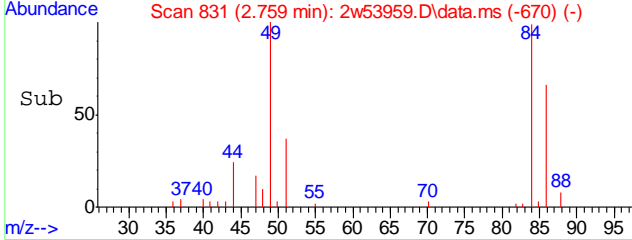
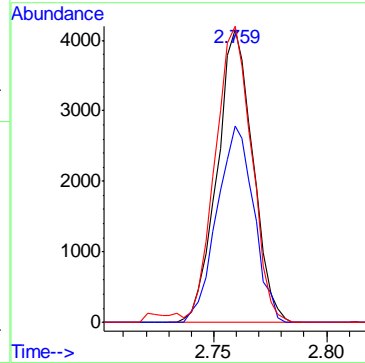
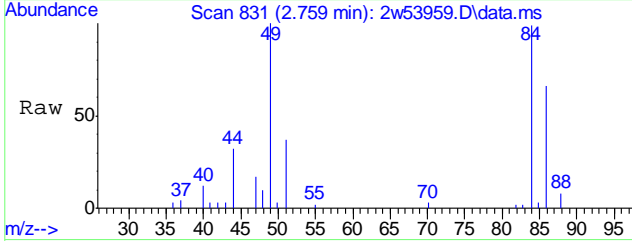
Tgt Ion	Resp	Lower	Upper
45	11169		
45	100		
46	40.7	33.8	50.6
42	6.4	6.1	9.1





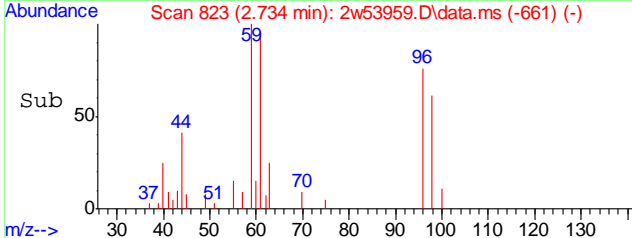
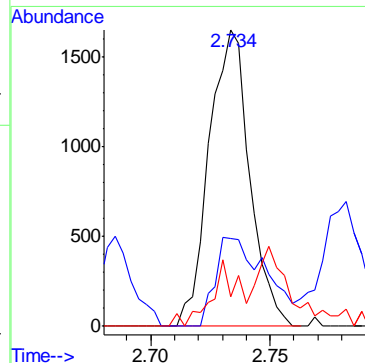
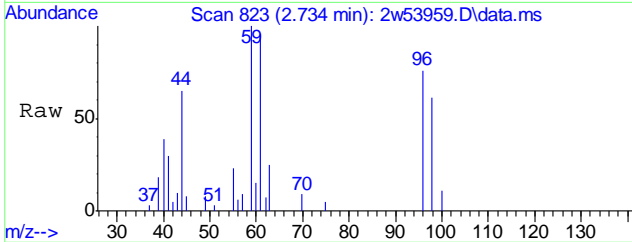
#31
 METHYLENE CHLORIDE
 Concen: 0.79 PPBV
 RT: 2.759 min Scan# 831
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

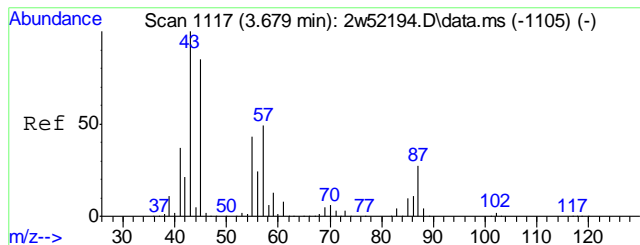
Tgt Ion	Resp	Lower	Upper
84	100		
86	69.0	52.1	78.1
49	102.7	76.1	114.1



#35
 TERTIARY BUTYL ALCOHOL
 Concen: 0.22 PPBV
 RT: 2.734 min Scan# 823
 Delta R.T. 0.022 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

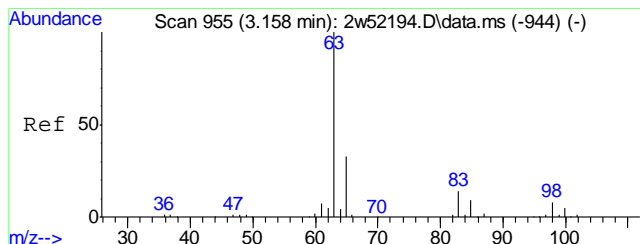
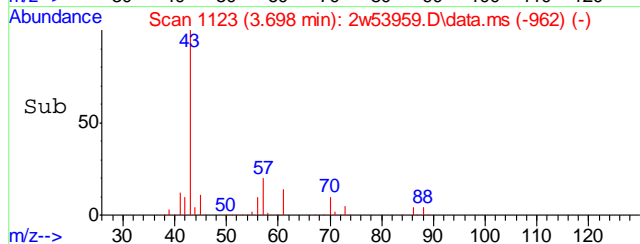
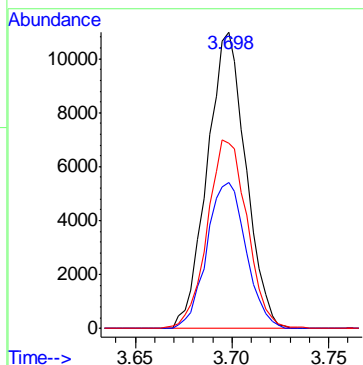
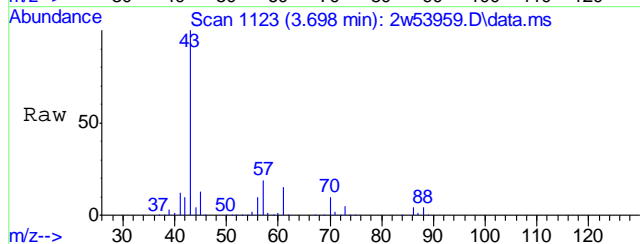
Tgt Ion	Resp	Lower	Upper
59	100		
41	38.9	14.3	21.5#
43	14.5	8.5	12.7#





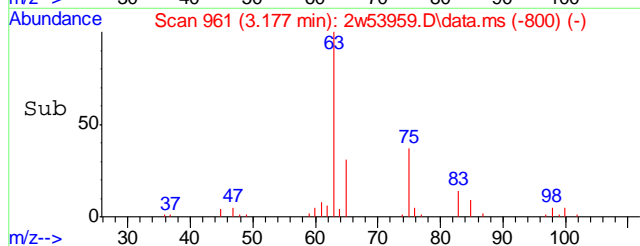
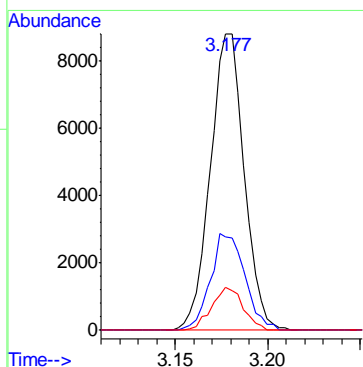
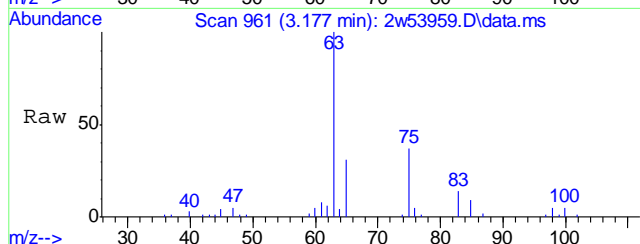
#38
 HEXANE
 Concen: 1.80 PPBV
 RT: 3.698 min Scan# 1123
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

Tgt Ion	Resp	Lower	Upper
57	15215		
56	50.1	41.0	61.6
41	65.7	62.2	93.2

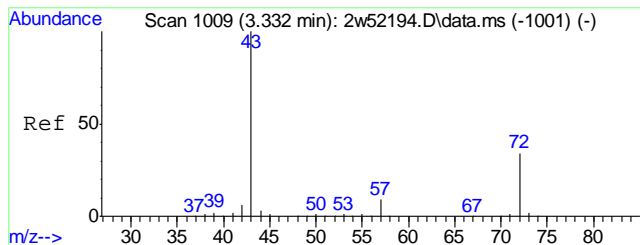


#40
 1,1-DICHLOROETHANE
 Concen: 1.30 PPBV
 RT: 3.177 min Scan# 961
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

Tgt Ion	Resp	Lower	Upper
63	11204		
65	32.9	26.1	39.1
83	13.3	11.0	16.6

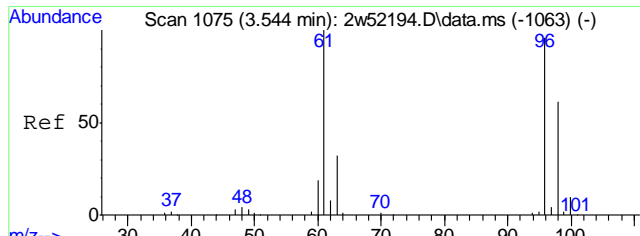
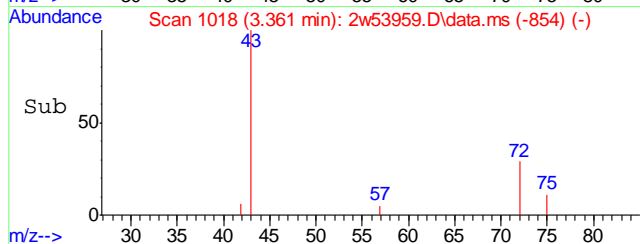
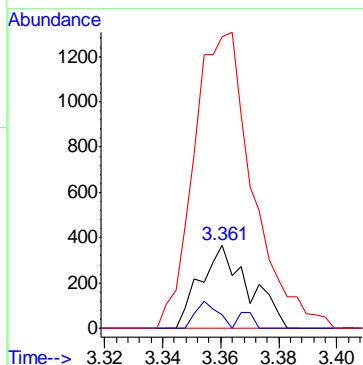
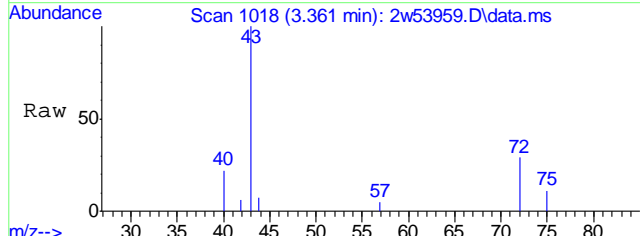


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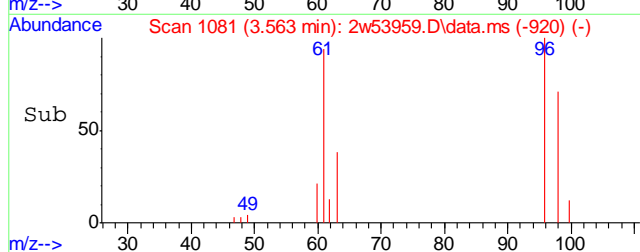
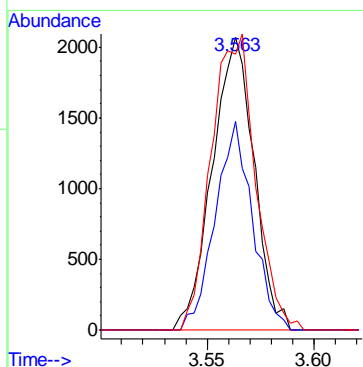
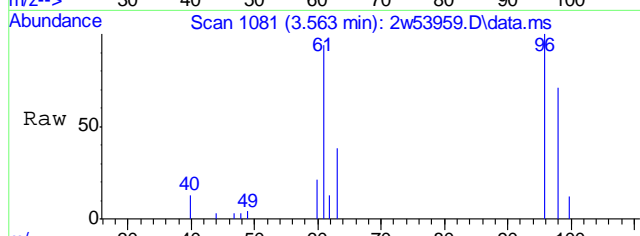
#41
 METHYL ETHYL KETONE
 Concen: 0.15 PPBV
 RT: 3.361 min Scan# 1018
 Delta R.T. 0.029 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

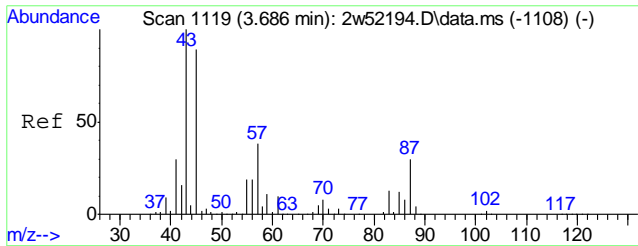
Tgt Ion	Resp	Lower	Upper
72	424		
72	100		
57	0.0	21.8	32.8#
43	435.1	242.1	363.1#



#42
 CIS-1,2-DICHLOROETHENE
 Concen: 0.44 PPBV
 RT: 3.563 min Scan# 1081
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

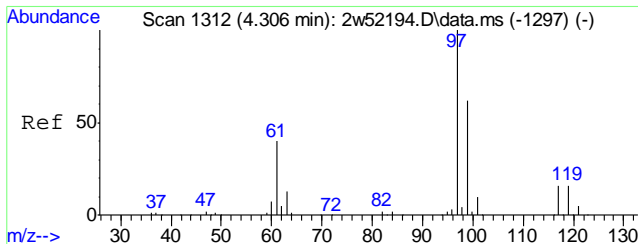
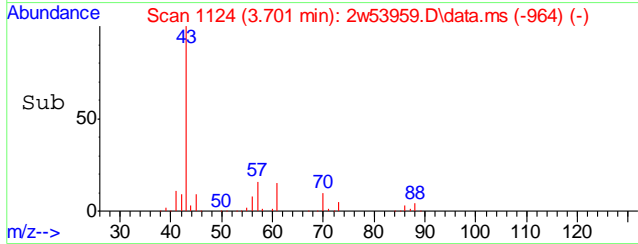
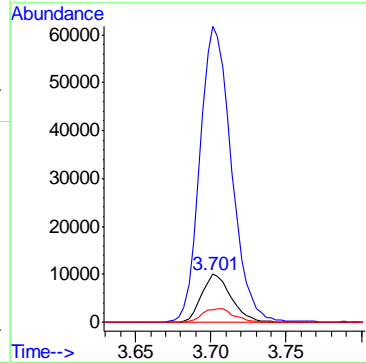
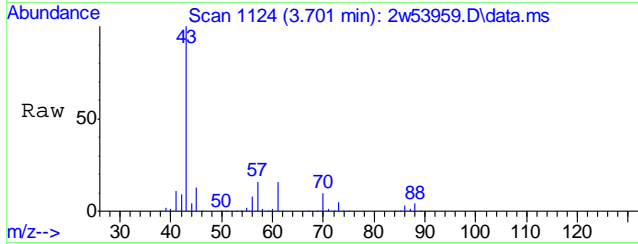
Tgt Ion	Resp	Lower	Upper
96	2802		
96	100		
98	63.2	51.2	76.8
61	106.9	84.8	127.2





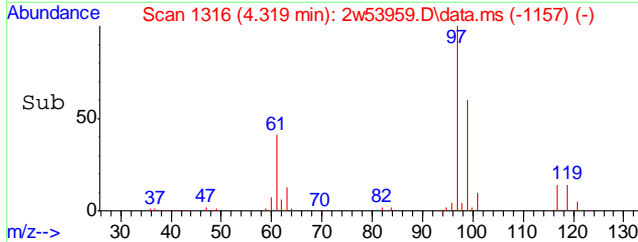
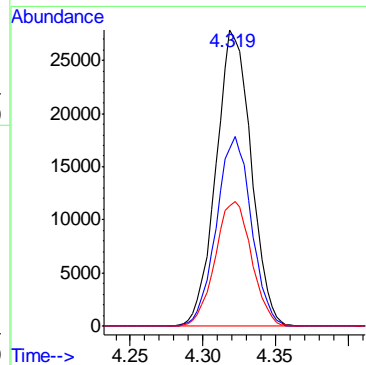
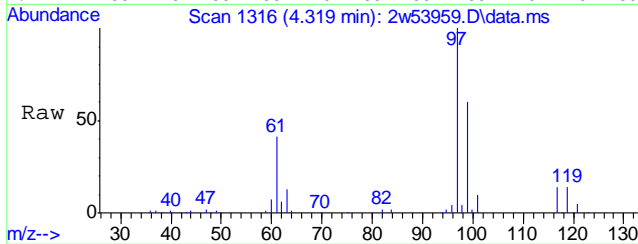
#44
 ETHYL ACETATE
 Concen: 9.03 PPBV
 RT: 3.701 min Scan# 1124
 Delta R.T. 0.016 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

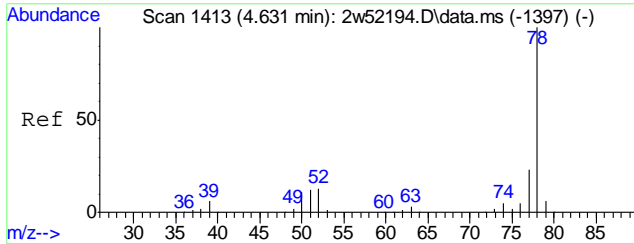
Tgt Ion	Resp	Lower	Upper
61	13733		
43	655.7	928.8	1393.2#
88	30.4	39.9	59.9#



#48
 1,1,1-TRICHLOROETHANE
 Concen: 5.43 PPBV
 RT: 4.319 min Scan# 1316
 Delta R.T. 0.013 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

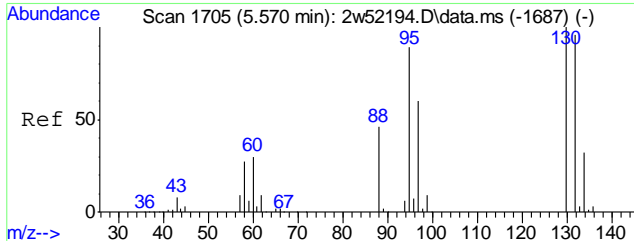
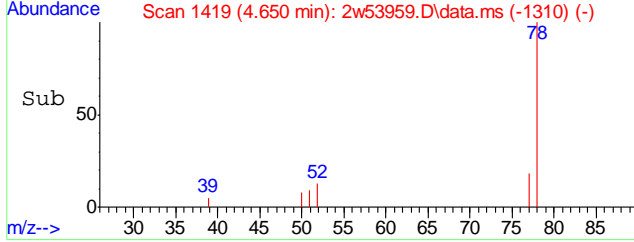
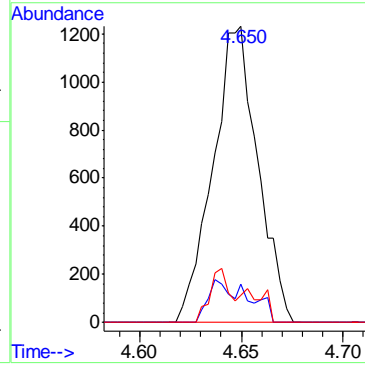
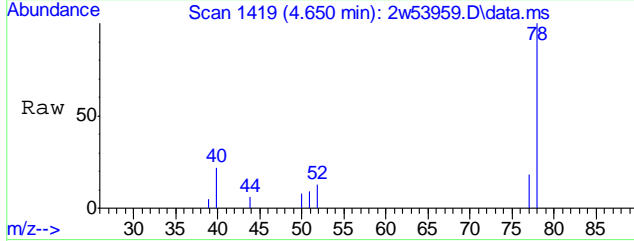
Tgt Ion	Resp	Lower	Upper
97	46855		
99	63.8	51.9	77.9
61	43.5	33.5	50.3





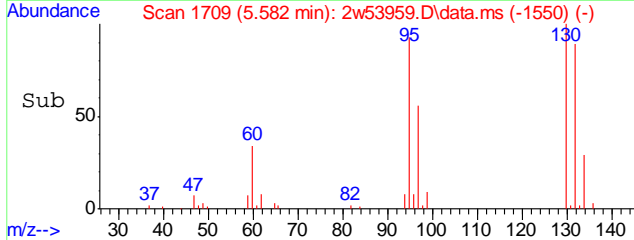
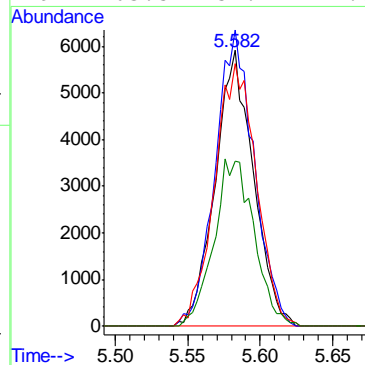
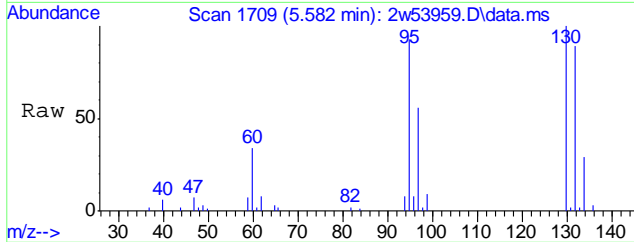
#51
 BENZENE
 Concen: 0.10 PPBV
 RT: 4.650 min Scan# 1419
 Delta R.T. 0.019 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

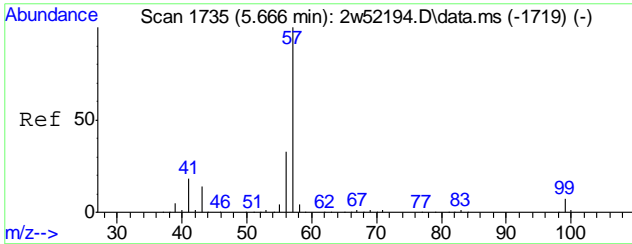
Tgt Ion	Resp	Lower	Upper
78	1891		
78	100		
52	12.5	0.0	33.0
51	13.9	0.0	32.3



#55
 TRICHLOROETHENE
 Concen: 1.39 PPBV
 RT: 5.582 min Scan# 1709
 Delta R.T. 0.013 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

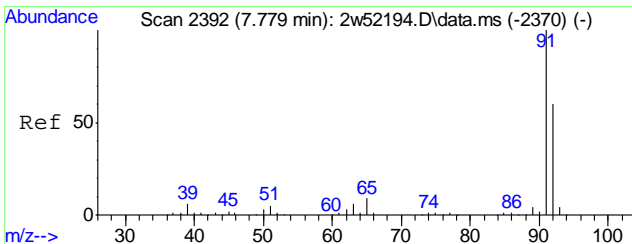
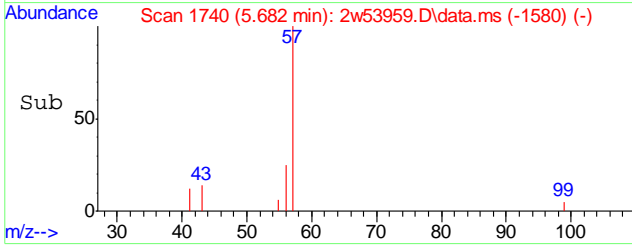
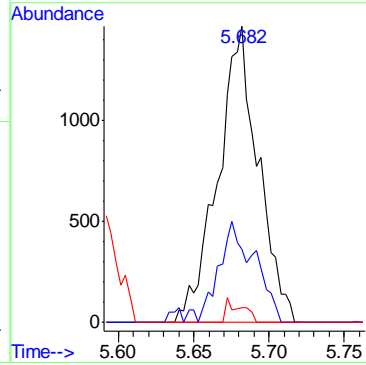
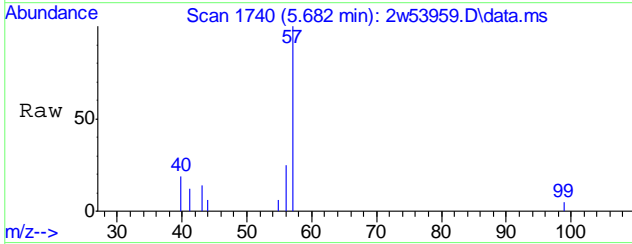
Tgt Ion	Resp	Lower	Upper
95	10813		
95	100		
130	109.5	90.4	135.6
132	104.2	87.2	130.8
97	63.5	51.7	77.5





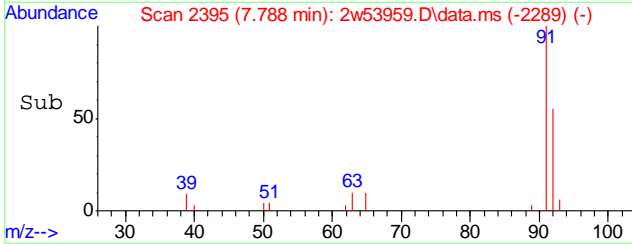
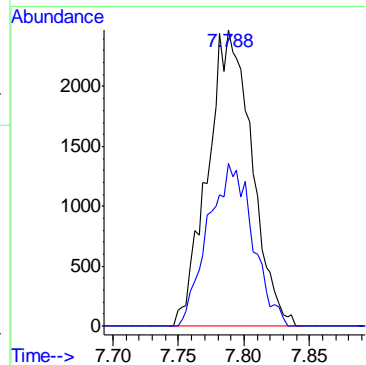
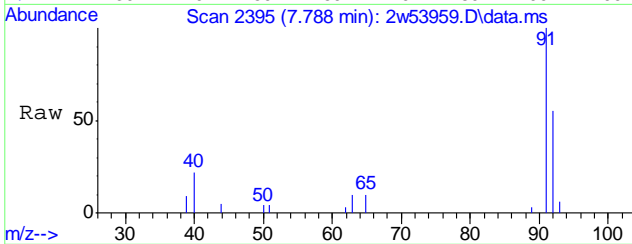
#60
 2,2,4-TRIMETHYLPENTANE
 Concen: 0.10 PPBV
 RT: 5.682 min Scan# 1740
 Delta R.T. 0.016 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

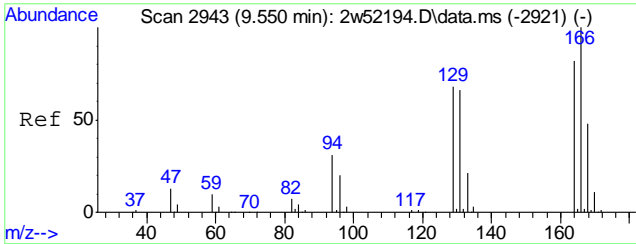
Tgt Ion	Resp	Lower	Upper
57	100		
56	29.9	26.4	39.6
99	0.0	5.4	8.2#



#66
 TOLUENE
 Concen: 0.24 PPBV
 RT: 7.788 min Scan# 2395
 Delta R.T. 0.009 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

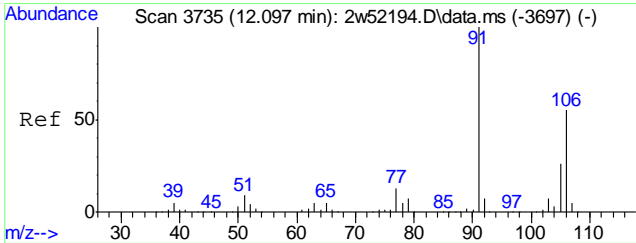
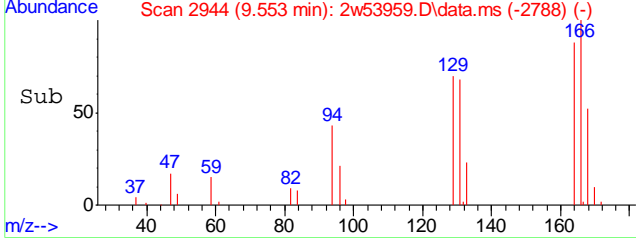
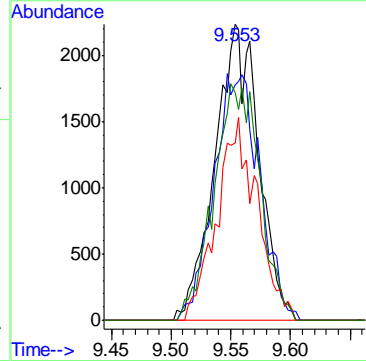
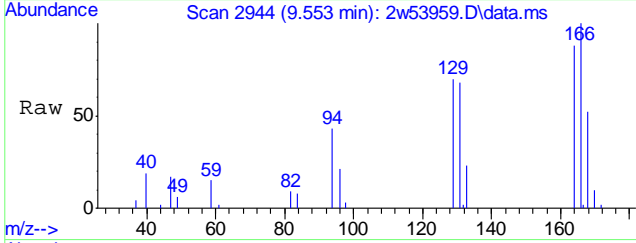
Tgt Ion	Resp	Lower	Upper
91	100		
92	55.0	39.2	79.2





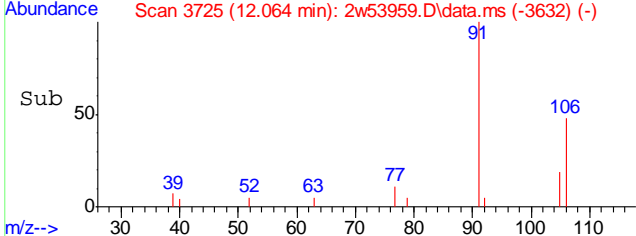
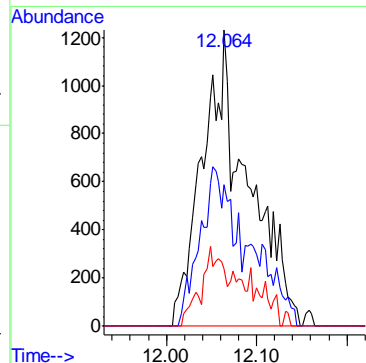
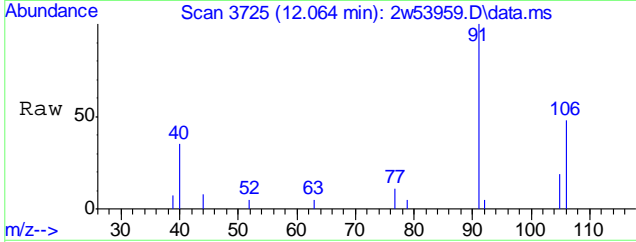
#72
 TETRACHLOROETHENE
 Concen: 0.64 PPBV
 RT: 9.553 min Scan# 2944
 Delta R.T. 0.003 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

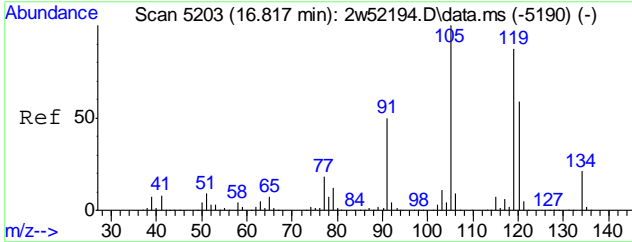
Tgt Ion	Resp	Lower	Upper
164	100		
129	87.8	68.5	102.7
168	63.0	48.9	73.3
131	84.2	65.8	98.6



#80
 M,P-XYLENE
 Concen: 0.19 PPBV
 RT: 12.064 min Scan# 3725
 Delta R.T. -0.032 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

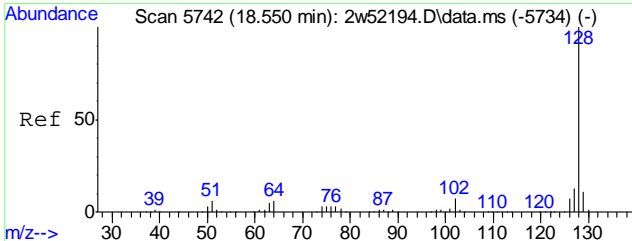
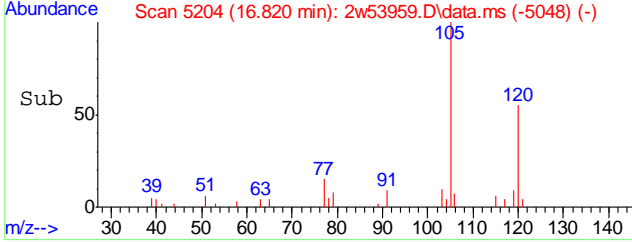
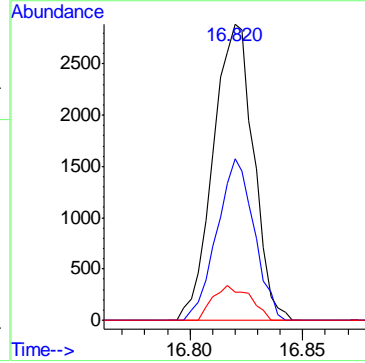
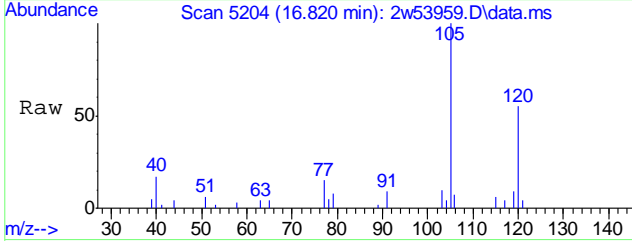
Tgt Ion	Resp	Lower	Upper
91	100		
106	57.0	34.7	74.7
105	25.0	4.8	44.8





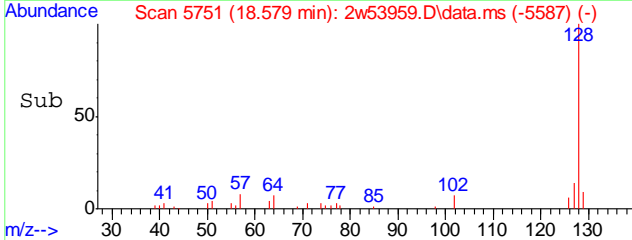
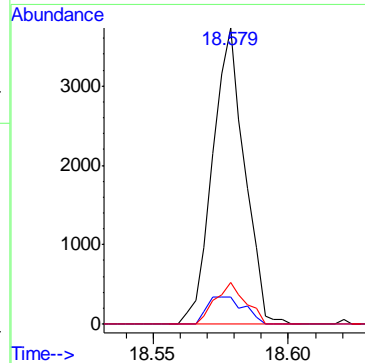
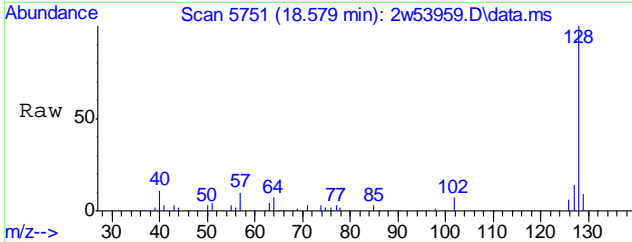
#96
 1,2,4-TRIMETHYLBENZENE
 Concen: 0.17 PPBV
 RT: 16.820 min Scan# 5204
 Delta R.T. 0.003 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	50.6	49.0	73.4
119	10.8	94.0	141.0#



#108
 NAPHTHALENE
 Concen: 0.12 PPBV
 RT: 18.579 min Scan# 5751
 Delta R.T. 0.029 min
 Lab File: 2w53959.D
 Acq: 9 Jun 2021 2:58 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	13.3	10.0	15.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43878.D
 Acq On : 25 May 2021 5:19 pm
 Operator : thomash
 Sample : scc(a516),cp11184
 Misc : ms51137,v5w1802,100,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 12:34:13 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.567	130	116746	10.00	ppb(v)	#-0.03
53) 1,4-Difluorobenzene	13.764	114	423444	10.00	ppb(v)	-0.03
76) Chlorobenzene-d5	19.031	82	195756	10.00	ppb(v)	-0.02
108) Bromochloromethane (A)	11.567	130	116746	10.00	ppb(v)	#-0.03
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.958	95	237719	9.81	ppb(v)	-0.02
Spiked Amount	10.000	Range 65 - 128	Recovery	=	98.10%	
Target Compounds						
					Qvalue	

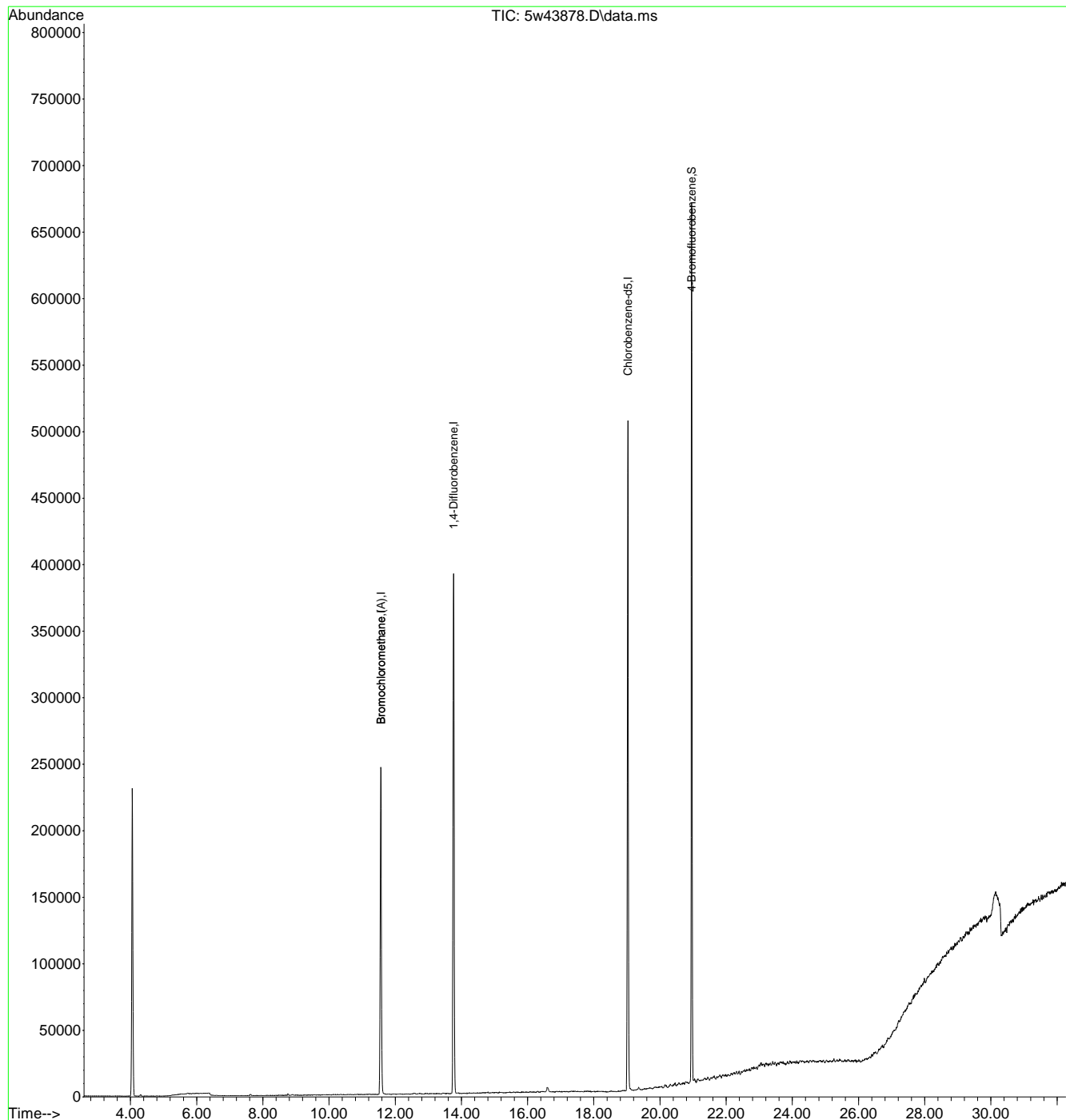
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.5.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43878.D
 Acq On : 25 May 2021 5:19 pm
 Operator : thomash
 Sample : scc(a516),cp11184
 Misc : ms51137,v5w1802,100,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 27 12:34:13 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration



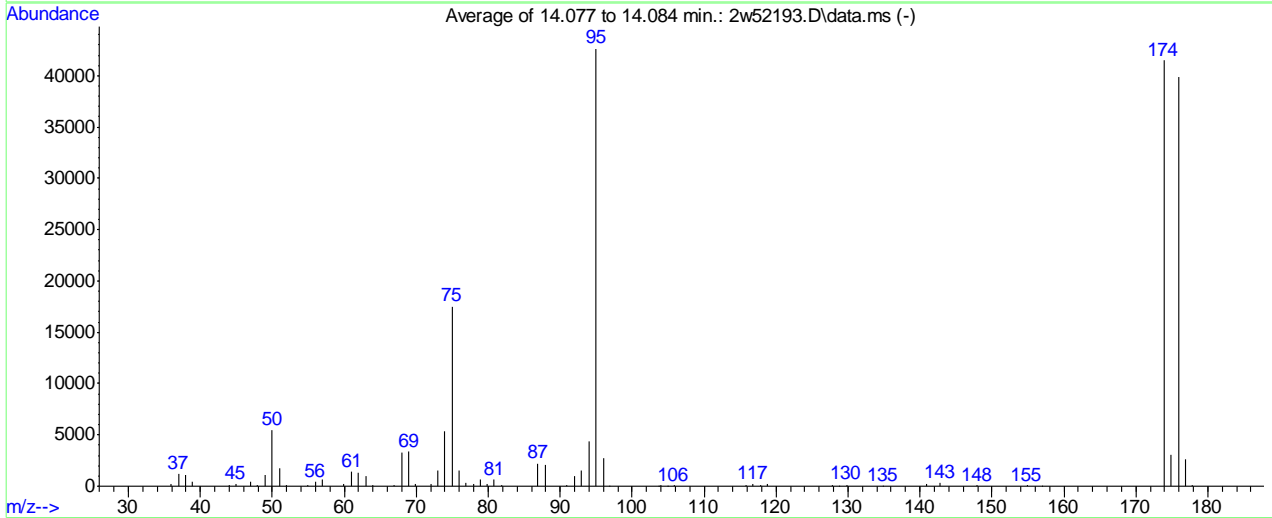
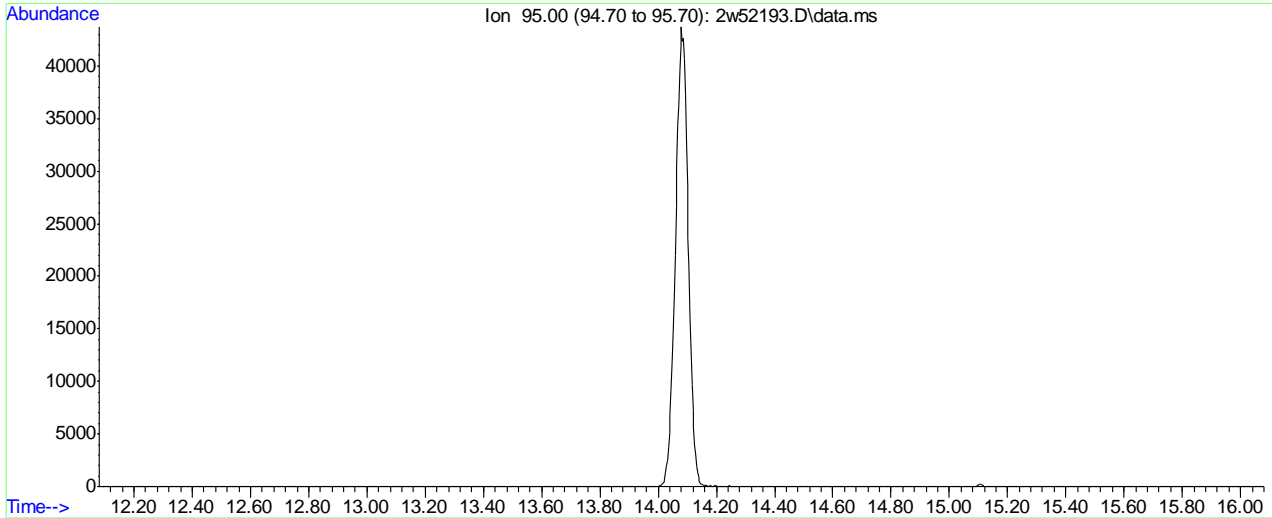
7.5.1
7

BFB

Data File : C:\msdchem\1\DATA\2w52193.D
 Acq On : 5 Mar 2021 10:43 am
 Sample : bfb
 Misc : MS49231,V2W2318,,,,,1
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: danat
 Inst : MS2W
 Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M2W2318.M (RTE Integrator)
 Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4351, 4352, 4353; Background Corrected with Scan 4326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.9	5496	PASS
75	95	30	66	41.0	17485	PASS
95	95	100	100	100.0	42651	PASS
96	95	5	9	6.3	2702	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	97.3	41493	PASS
175	174	4	9	7.4	3088	PASS
176	174	93	101	96.0	39827	PASS
177	176	5	9	6.5	2573	PASS

Average of 14.077 to 14.084 min.: 2w52193.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	222	51.90	84	69.00	3384	80.85	648
37.00	1169	54.95	73	69.95	235	81.85	108
38.00	1060	55.95	401	72.00	213	86.90	2234
38.95	416	56.95	690	73.00	1503	87.95	2116
43.95	121	59.95	271	74.00	5389	90.85	102
44.95	199	61.00	1375	75.00	17485	91.95	952
46.95	471	62.00	1350	76.00	1496	92.95	1491
47.90	161	63.00	1003	76.95	294	94.00	4421
49.00	1130	63.95	106	77.95	230	95.00	42651
50.00	5496	66.90	101	78.85	664	96.00	2702
51.00	1744	68.00	3299	79.85	187	96.80	25

Average of 14.077 to 14.084 min.: 2w52193.D\data.ms

bfb

Modified:subtracted

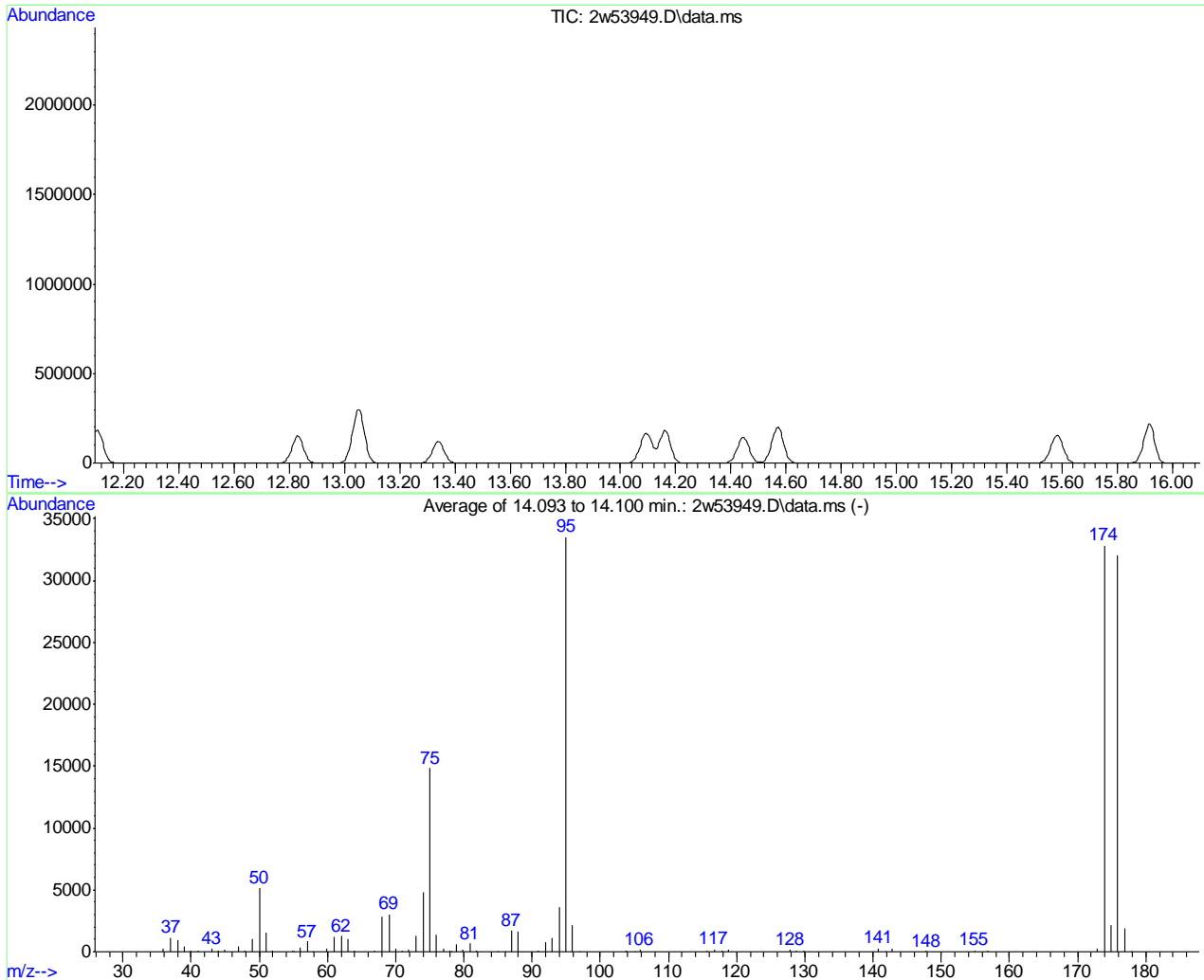
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.70	32	134.85	43				
103.95	78	140.85	227				
104.90	39	142.85	316				
105.85	82	147.95	84				
115.75	97	154.90	75				
116.80	204	156.90	19				
117.80	143	173.90	41493				
118.85	170	174.90	3088				
127.85	113	175.90	39827				
128.80	17	176.90	2573				
129.85	116	177.80	77				

BFB

Data File : C:\msdchem\1\DATA\2w53949.D
 Acq On : 9 Jun 2021 7:39 am
 Sample : bfb
 Misc : MS51444,V2W2391,,,,,1
 MS Integration Params: RTEINT.P

Vial: 2
 Operator: thomash
 Inst : MS2W
 Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M2W2318.M (RTE Integrator)
 Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4356, 4357, 4358; Background Corrected with Scan 4331

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.4	5151	PASS
75	95	30	66	44.2	14826	PASS
95	95	100	100	100.0	33517	PASS
96	95	5	9	6.5	2165	PASS
173	174	0.00	2	0.7	246	PASS
174	95	50	120	97.9	32829	PASS
175	174	4	9	6.5	2138	PASS
176	174	93	101	97.4	31981	PASS
177	176	5	9	6.0	1925	PASS

2w53949.D M2W2318.M Wed Jun 09 10:17:48 2021 GCMS2W

Average of 14.093 to 14.100 min.: 2w53949.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	229	48.95	1023	62.00	1256	75.00	14826
37.00	1148	50.00	5151	63.00	1006	76.00	1357
38.00	905	51.00	1518	63.90	53	76.95	222
39.00	425	51.95	61	66.95	57	77.90	50
39.90	113	54.90	79	68.00	2834	78.10	33
41.00	120	55.10	36	69.00	3008	78.85	589
43.00	222	55.95	379	69.95	247	79.90	178
43.90	124	57.00	833	71.00	91	80.90	651
44.95	188	57.80	26	71.95	179	81.70	38
46.95	456	59.95	242	72.95	1264	81.85	92
47.90	121	61.00	1200	74.00	4797	84.90	21

Average of 14.093 to 14.100 min.: 2w53949.D\data.ms

bfb

Modified:subtracted

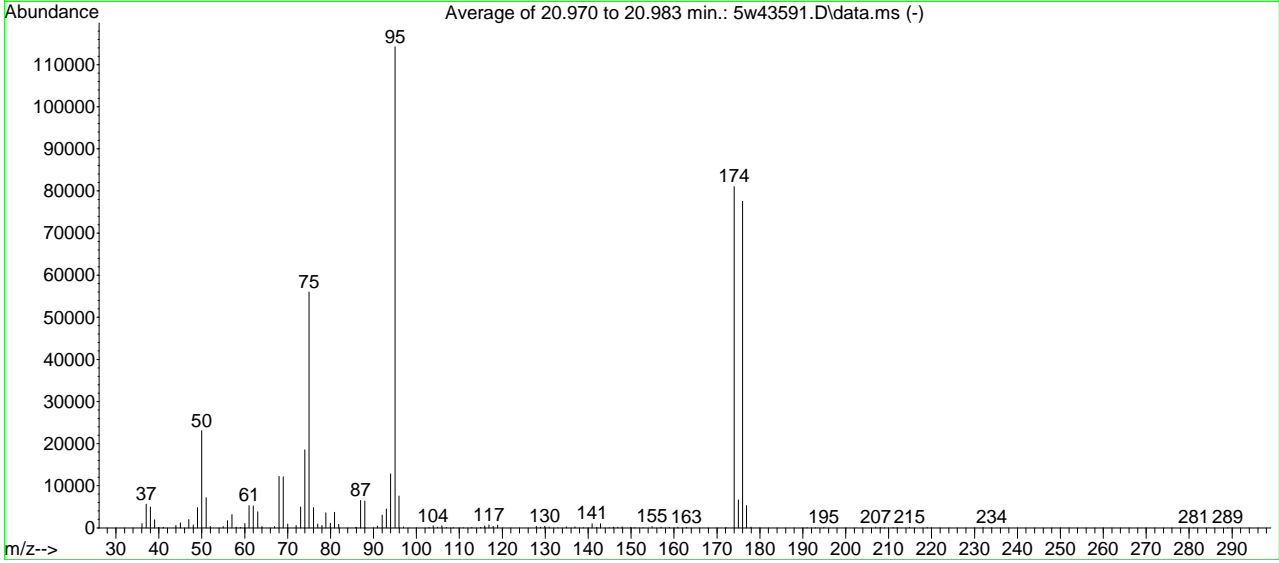
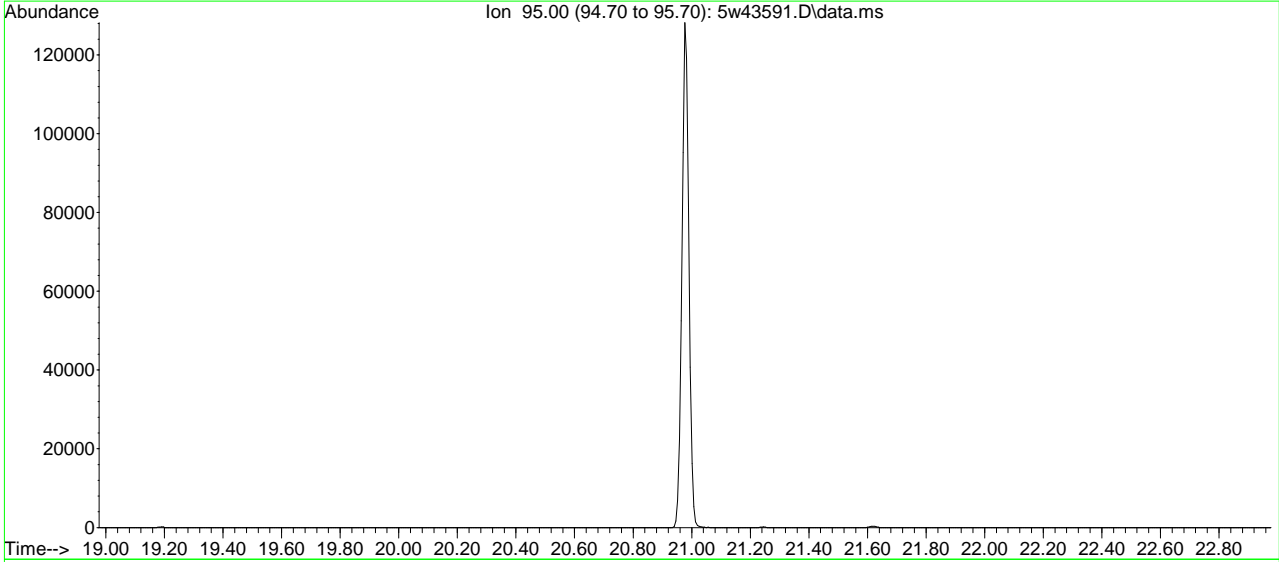
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	39	103.85	70	141.90	19		
86.95	1704	105.00	20	142.85	256		
87.95	1670	105.80	143	147.80	60		
90.85	86	115.75	77	154.90	95		
91.95	785	116.75	176	156.80	58		
92.95	1106	117.90	69	172.90	246		
94.00	3581	118.75	132	173.90	32829		
95.00	33517	127.90	132	174.90	2138		
95.95	2165	128.75	46	175.90	31981		
97.00	30	129.85	68	176.90	1925		
103.60	38	140.85	266	177.85	41		

BFB

Data File : C:\msdchem\1\data\5w43591.D
 Acq On : 20 Apr 2021 2:58 pm
 Sample : bfb
 Misc : ms49231,v5w1785,,,,,1
 MS Integration Params: Rteint.p

Vial: 1
 Operator: benk
 Inst : Air5w
 Multiplr: 1.00

Method : C:\msdchem\1\methods\m5w1785.M (RTE Integrator)
 Title : TO-15 Full Scan Mode



AutoFind: Scans 3005, 3006, 3007; Background Corrected with Scan 2997

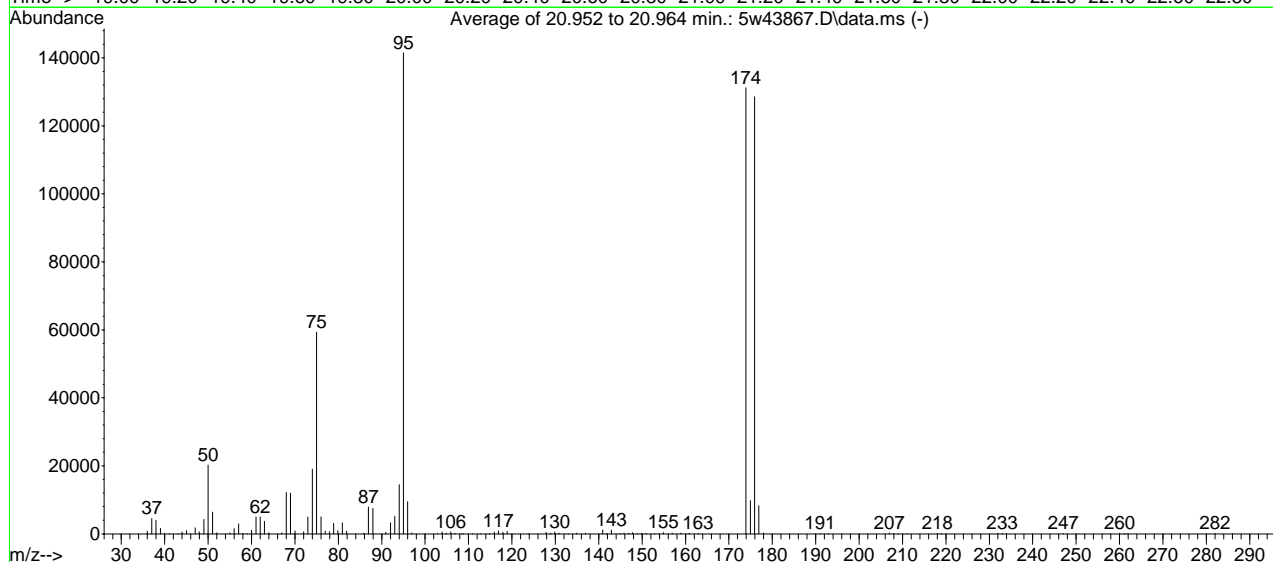
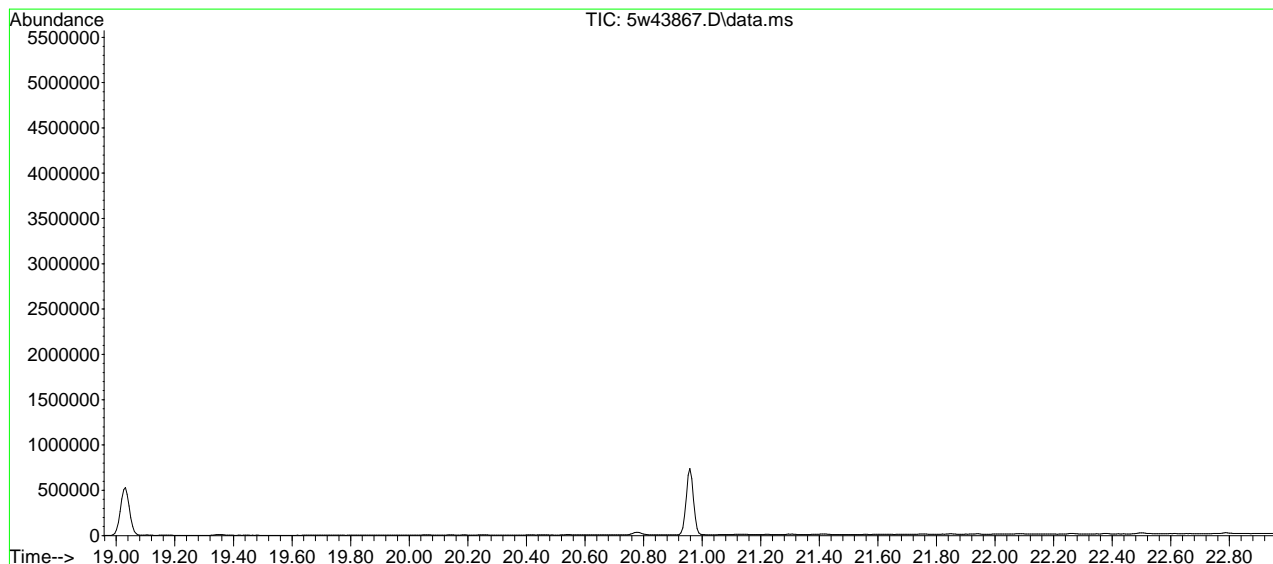
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.2	23072	PASS
75	95	30	66	49.0	56001	PASS
95	95	100	100	100.0	114219	PASS
96	95	5	9	6.6	7555	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	70.9	81013	PASS
175	174	4	9	8.2	6648	PASS
176	174	93	101	95.8	77592	PASS
177	176	5	9	6.8	5261	PASS

BFB

Data File : C:\msdchem\1\data\5w43867.D
 Acq On : 25 May 2021 7:12 am
 Sample : bfb
 Misc : ms51023,v5w1802,,,,,1
 MS Integration Params: Rteint.p

Vial: 1
 Operator: thomash
 Inst : Air5w
 Multiplr: 1.00

Method : C:\msdchem\1\methods\m5w1785.M (RTE Integrator)
 Title : TO-15 Full Scan Mode



AutoFind: Scans 3002, 3003, 3004; Background Corrected with Scan 2993

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.3	20256	PASS
75	95	30	66	41.9	59307	PASS
95	95	100	100	100.0	141469	PASS
96	95	5	9	6.7	9439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.7	131152	PASS
175	174	4	9	7.5	9800	PASS
176	174	93	101	98.0	128541	PASS
177	176	5	9	6.5	8295	PASS

7.6.4
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52194.D
 Acq On : 5 Mar 2021 11:14 am
 Operator : danat
 Sample : icc2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 13:45:55 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.624	128	46763	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.968	114	237709	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.695	117	212044	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.084	95	131151	9.40	PPBV	0.00
Target Compounds						
						Qvalue
3) FREON 152A	1.837	65	40900	8.48	PPBV	96
4) CHLORODIFLUOROMETHANE	1.853	67	12784	8.82	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.869	116	103922	9.94	PPBV	100
6) DICHLORODIFLUOROMETHANE	1.888	85	150243	9.49	PPBV	99
7) PROPYLENE	1.866	41	41277	7.13	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	1.940	65	102325	8.92	PPBV	97
9) FREON 114	1.985	85	177806	9.05	PPBV	97
10) CHLOROMETHANE	1.946	52	17015	8.56	PPBV	99
11) VINYL CHLORIDE	2.026	62	69718	9.30	PPBV	99
12) 1,3-BUTADIENE	2.075	54	48777	8.39	PPBV	93
13) N-BUTANE	2.094	43	78954	7.74	PPBV	# 94
14) BROMOMETHANE	2.171	94	71902	9.53	PPBV	99
15) CHLOROETHANE	2.232	64	39374	8.76	PPBV	97
16) DICHLOROFLUOROMETHANE	2.264	67	136043	9.18	PPBV	99
17) ACETONITRILE	2.351	41	44078	6.91	PPBV	98
18) ACROLEIN	2.396	56	29613	9.26	PPBV	100
19) FREON 123	2.416	83	163032	9.76	PPBV	100
20) FREON 123A	2.435	117	90287	9.78	PPBV	90
21) TRICHLOROFLUOROMETHANE	2.502	101	140436	9.91	PPBV	100
22) ISOPROPYL ALCOHOL	2.518	45	91036	7.86	PPBV	99
23) ACETONE	2.441	58	29949	8.10	PPBV	84
24) PENTANE	2.618	42	50750	7.71	PPBV	98
25) IODOMETHANE	2.676	142	195226	10.66	PPBV	97
26) 1,1-DICHLOROETHYLENE	2.702	96	70852	8.86	PPBV	90
27) CARBON DISULFIDE	2.837	76	168044	9.02	PPBV	96
28) ETHANOL	2.271	45	21479	7.36	PPBV	99
29) BROMOETHENE	2.361	106	70366	10.10	PPBV	99
30) ACRYLONITRILE	2.589	52	38512	7.90	PPBV	98
31) METHYLENE CHLORIDE	2.740	84	63677	9.38	PPBV	89
32) 3-CHLOROPROPENE	2.782	76	34363	9.71	PPBV	80
33) FREON 113	2.837	151	120229	10.77	PPBV	96
34) TRANS-1,2-DICHLOROETHENE	3.078	96	70766	10.43	PPBV	90
35) TERTIARY BUTYL ALCOHOL	2.711	59	116877	8.61	PPBV	99
36) METHYL TERTIARY BUTYL ...	3.190	73	164083	8.93	PPBV	98
37) TETRAHYDROFURAN	3.920	72	34203	10.44	PPBV	85
38) HEXANE	3.679	57	101526	8.78	PPBV	94
39) VINYL ACETATE	3.232	86	18297	9.54	PPBV	# 53
40) 1,1-DICHLOROETHANE	3.158	63	108148	9.45	PPBV	98
41) METHYL ETHYL KETONE	3.332	72	33721	9.91	PPBV	75
42) CIS-1,2-DICHLOROETHENE	3.544	96	77206	10.05	PPBV	92
43) DIISOPROPYL ETHER	3.679	59	29607	9.11	PPBV	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52194.D
 Acq On : 5 Mar 2021 11:14 am
 Operator : danat
 Sample : icc2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 13:45:55 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.686	61	20258	9.24	PPBV	77
45) METHYL ACRYLATE	3.673	55	112170	8.11	PPBV	95
46) CHLOROFORM	3.702	83	123951	9.41	PPBV	98
47) 2,4-DIMETHYLPENTANE	4.223	57	123182	8.71	PPBV	98
48) 1,1,1-TRICHLOROETHANE	4.306	97	107735	8.79	PPBV	99
49) CARBON TETRACHLORIDE	4.750	117	104916	8.60	PPBV	100
50) 1,2-DICHLOROETHANE	4.133	62	68270	9.50	PPBV	99
51) BENZENE	4.631	78	229026	9.58	PPBV	96
53) CYCLOHEXANE	4.853	84	103194	10.48	PPBV	92
54) 2,3-DIMETHYLPENTANE	5.116	71	51928	9.96	PPBV	92
55) TRICHLOROETHENE	5.570	95	94903	10.34	PPBV	97
56) 1,2-DICHLOROPROPANE	5.325	63	78817	9.80	PPBV	99
57) DIBROMOMETHANE	5.284	174	99473	10.08	PPBV	96
58) ETHYL ACRYLATE	5.441	55	137785	8.04	PPBV	98
59) BROMODICHLOROMETHANE	5.512	83	130185	9.59	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.666	57	326694	8.94	PPBV	99
61) 1,4-DIOXANE	5.573	88	50997	10.83	PPBV	92
62) HEPTANE	5.991	43	101329	7.65	PPBV	90
63) METHYL METHACRYLATE	5.882	69	80571	8.78	PPBV	88
64) METHYL ISOBUTYL KETONE	6.634	58	63772	9.36	PPBV	88
65) CIS-1,3-DICHLOROPROPENE	6.534	75	113774	9.58	PPBV	95
66) TOLUENE	7.779	91	278588	9.01	PPBV	99
67) 1,3-DICHLOROPROPANE	7.837	76	125618	9.88	PPBV #	99
68) TRANS-1,3-DICHLOROPROPENE	7.235	75	92395	8.88	PPBV	95
69) 1,1,2-TRICHLOROETHANE	7.396	83	78929	10.05	PPBV	99
70) 2-HEXANONE	8.345	58	80128	8.58	PPBV	89
71) ETHYL METHACRYLATE	8.486	69	126816	8.82	PPBV	93
72) TETRACHLOROETHENE	9.550	164	110005	10.71	PPBV	99
73) DIBROMOCHLOROMETHANE	8.325	129	136988	9.95	PPBV	99
74) 1,2-DIBROMOETHANE	8.679	107	134924	10.28	PPBV	99
75) OCTANE	9.689	43	137357	7.71	PPBV #	89
77) 1,1,1,2-TETRACHLOROETHANE	10.785	131	102409	10.03	PPBV	98
78) CHLOROBENZENE	10.772	112	221377	10.32	PPBV	97
79) ETHYLBENZENE	11.663	91	336163	8.49	PPBV	98
80) M,P-XYLENE	12.097	91	492322	17.07	PPBV	98
81) O-XYLENE	13.042	91	248660	8.17	PPBV	97
82) STYRENE	12.827	104	212037	9.90	PPBV	98
83) NONANE	14.155	43	135683	8.33	PPBV	90
84) BROMOFORM	11.914	173	134544	10.33	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.049	83	183191	9.74	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	13.332	75	130102	9.79	PPBV #	100
88) ISOPROPYLBENZENE	14.563	120	104355	10.83	PPBV	93
89) BROMOBENZENE	14.441	77	163074	9.38	PPBV	93
90) 2-CHLOROTOLUENE	15.579	126	93257	10.39	PPBV	99
91) N-PROPYLBENZENE	15.910	120	104984	10.30	PPBV	99
92) 4-ETHYLTOLUENE	16.228	105	342546	9.57	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	275848	9.55	PPBV	98
94) ALPHA-METHYLSTYRENE	16.560	118	155565	10.02	PPBV	98
95) TERT-BUTYLBENZENE	16.810	134	77206	10.49	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	275218	9.38	PPBV	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52194.D
 Acq On : 5 Mar 2021 11:14 am
 Operator : danat
 Sample : icc2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 13:45:55 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.900	91	160969	6.40	PPBV	99
98) M-DICHLOROBENZENE	16.878	146	196224	9.60	PPBV	99
99) P-DICHLOROBENZENE	16.958	146	195919	9.33	PPBV	99
100) O-DICHLOROBENZENE	17.248	146	179408	9.55	PPBV	99
101) SEC-BUTYLBENZENE	17.084	134	93949	10.41	PPBV	93
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	263756	9.34	PPBV	98
103) P-ISOPROPYLTOLUENE	17.261	134	97972	10.05	PPBV	99
104) N-BUTYLBENZENE	17.601	134	89767	9.68	PPBV	93
105) HEXACHLOROETHANE	17.778	117	91284	8.37	PPBV	99
106) HEXACHLOROBUTADIENE	18.807	225	101483	7.77	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.502	180	115949	6.89	PPBV	99
108) NAPHTHALENE	18.550	128	232056	6.92	PPBV	100

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

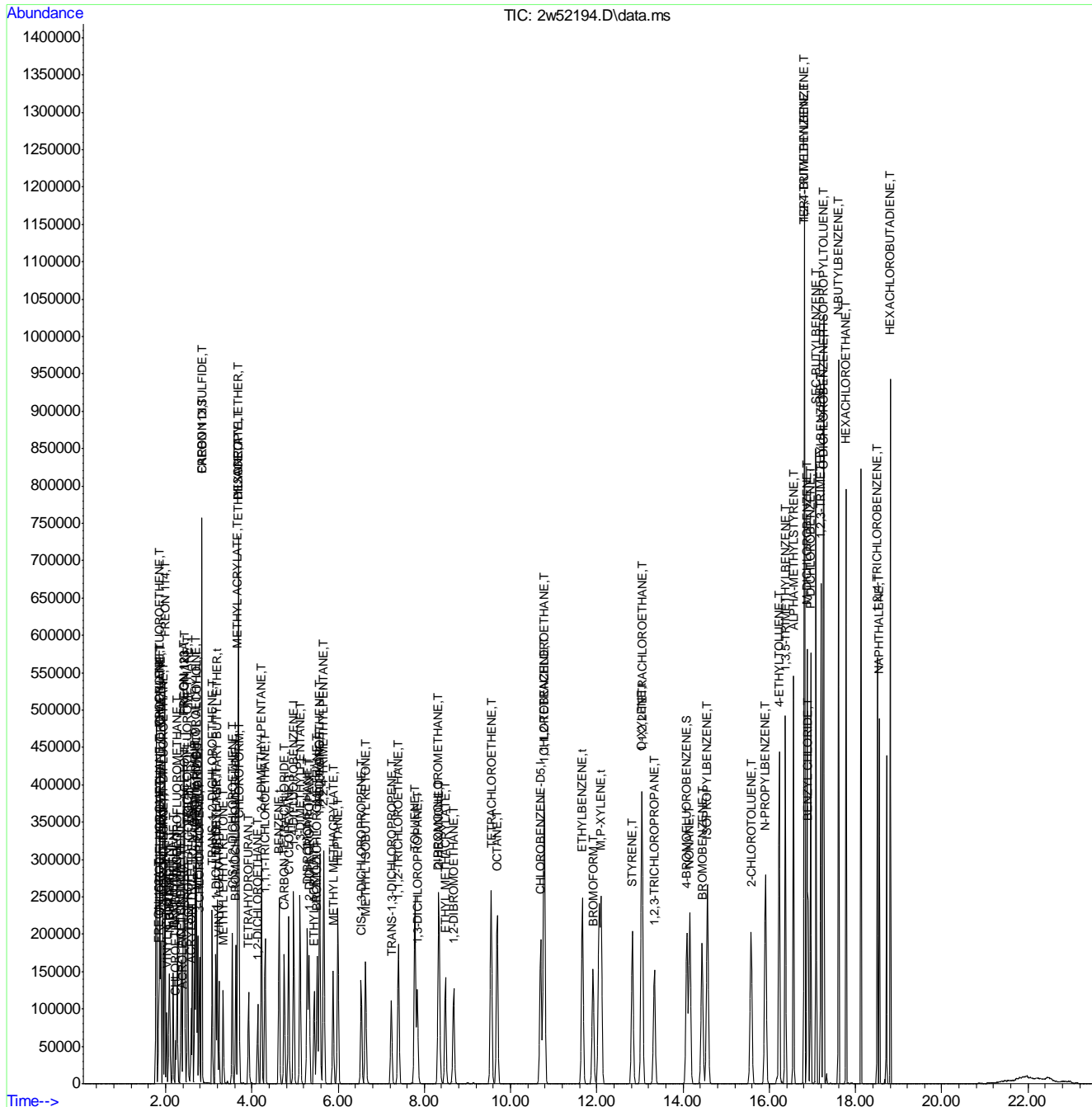
7.7.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52194.D
 Acq On : 5 Mar 2021 11:14 am
 Operator : danat
 Sample : icc2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 13:45:55 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52198.D
 Acq On : 5 Mar 2021 1:53 pm
 Operator : danat
 Sample : ic2318-0.5
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 14:19:24 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 13:47:21 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.621	128	47591	10.00	PPBV	0.00	
52) 1,4-DIFLUOROBENZENE	4.965	114	242278	10.00	PPBV	0.00	
76) CHLOROBENZENE-D5	10.685	117	220599	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFUOROENZENE	14.081	95	135410	9.92	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.837	65	2122	0.51	PPBV		100
4) CHLORODIFLUOROMETHANE	1.856	67	683	0.52	PPBV	#	39
5) CHLOROTRIFLUOROETHENE	1.869	116	5255	0.50	PPBV		98
6) DICHLORODIFLUOROMETHANE	1.888	85	7575	0.50	PPBV		92
7) PROPYLENE	1.866	41	2137	0.51	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.940	65	5314	0.51	PPBV		98
9) FREON 114	1.982	85	8872	0.49	PPBV		99
10) CHLOROMETHANE	1.943	52	770	0.44	PPBV		91
11) VINYL CHLORIDE	2.023	62	3440	0.48	PPBV		98
12) 1,3-BUTADIENE	2.072	54	2459	0.50	PPBV		98
13) N-BUTANE	2.097	43	4068	0.51	PPBV	#	98
14) BROMOMETHANE	2.171	94	3645	0.50	PPBV		98
15) CHLOROETHANE	2.236	64	2027	0.51	PPBV		98
16) DICHLOROFLUOROMETHANE	2.264	67	6785	0.49	PPBV		97
17) ACETONITRILE	2.351	41	3033	0.68	PPBV		96
18) ACROLEIN	2.399	56	1574	0.52	PPBV		97
19) FREON 123	2.416	83	8225	0.50	PPBV		98
20) FREON 123A	2.432	117	4605	0.50	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.502	101	7048	0.49	PPBV		99
22) ISOPROPYL ALCOHOL	2.518	45	6219	0.67	PPBV		99
23) ACETONE	2.441	58	2162	0.71	PPBV		96
24) PENTANE	2.615	42	2660	0.52	PPBV		98
25) IODOMETHANE	2.676	142	9781	0.49	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.702	96	3652	0.51	PPBV		98
27) CARBON DISULFIDE	2.837	76	7370	0.43	PPBV	#	83
28) ETHANOL	2.271	45	1964	0.90	PPBV	#	95
29) BROMOETHENE	2.361	106	3686	0.51	PPBV		98
30) ACRYLONITRILE	2.586	52	2171	0.55	PPBV		98
31) METHYLENE CHLORIDE	2.737	84	3562	0.55	PPBV		96
32) 3-CHLOROPROPENE	2.779	76	1665	0.48	PPBV		91
33) FREON 113	2.834	151	6208	0.51	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.075	96	3631	0.50	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.711	59	5488	0.46	PPBV	#	94
36) METHYL TERTIARY BUTYL ...	3.190	73	8447	0.51	PPBV		100
37) TETRAHYDROFURAN	3.930	72	1705	0.49	PPBV		93
38) HEXANE	3.676	57	5186	0.50	PPBV		100
39) VINYL ACETATE	3.229	86	716	0.38	PPBV	#	68
40) 1,1-DICHLOROETHANE	3.158	63	5314	0.48	PPBV		99
41) METHYL ETHYL KETONE	3.335	72	1936	0.56	PPBV		96
42) CIS-1,2-DICHLOROETHENE	3.538	96	3809	0.48	PPBV		97
43) DIISOPROPYL ETHER	3.679	59	1442	0.48	PPBV		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52198.D
 Acq On : 5 Mar 2021 1:53 pm
 Operator : danat
 Sample : ic2318-0.5
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 14:19:24 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 13:47:21 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.689	61	983	0.48	PPBV	90
45) METHYL ACRYLATE	3.673	55	5738	0.50	PPBV #	95
46) CHLOROFORM	3.698	83	6278	0.50	PPBV	95
47) 2,4-DIMETHYLPENTANE	4.216	57	6202	0.49	PPBV	99
48) 1,1,1-TRICHLOROETHANE	4.300	97	5285	0.48	PPBV	99
49) CARBON TETRACHLORIDE	4.743	117	4639	0.43	PPBV	99
50) 1,2-DICHLOROETHANE	4.133	62	3506	0.50	PPBV	97
51) BENZENE	4.628	78	11802	0.51	PPBV	98
53) CYCLOHEXANE	4.843	84	5337	0.51	PPBV	98
54) 2,3-DIMETHYLPENTANE	5.120	71	2701	0.51	PPBV	96
55) TRICHLOROETHENE	5.563	95	4939	0.51	PPBV	99
56) 1,2-DICHLOROPROPANE	5.319	63	3928	0.49	PPBV	97
57) DIBROMOMETHANE	5.277	174	4981	0.49	PPBV	97
58) ETHYL ACRYLATE	5.441	55	6592	0.47	PPBV	98
59) BROMODICHLOROMETHANE	5.505	83	5953	0.45	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	5.660	57	16136	0.48	PPBV	99
61) 1,4-DIOXANE	5.592	88	3107	0.60	PPBV #	97
62) HEPTANE	5.988	43	5097	0.49	PPBV	99
63) METHYL METHACRYLATE	5.882	69	3813	0.46	PPBV	97
64) METHYL ISOBUTYL KETONE	6.637	58	3045	0.47	PPBV	95
65) CIS-1,3-DICHLOROPROPENE	6.531	75	5035	0.43	PPBV	100
66) TOLUENE	7.772	91	14699	0.52	PPBV	100
67) 1,3-DICHLOROPROPANE	7.827	76	6260	0.49	PPBV #	97
68) TRANS-1,3-DICHLOROPROPENE	7.229	75	3948	0.42	PPBV	95
69) 1,1,2-TRICHLOROETHANE	7.386	83	3939	0.49	PPBV	99
70) 2-HEXANONE	8.341	58	4623	0.57	PPBV	95
71) ETHYL METHACRYLATE	8.483	69	5502	0.43	PPBV	100
72) TETRACHLOROETHENE	9.534	164	5625	0.50	PPBV	96
73) DIBROMOCHLOROMETHANE	8.322	129	5682	0.41	PPBV	98
74) 1,2-DIBROMOETHANE	8.669	107	6561	0.48	PPBV #	98
75) OCTANE	9.679	43	6857	0.49	PPBV	100
77) 1,1,1,2-TETRACHLOROETHANE	10.769	131	4087	0.38	PPBV	92
78) CHLOROBENZENE	10.762	112	11315	0.49	PPBV	98
79) ETHYLBENZENE	11.660	91	17655	0.50	PPBV	99
80) M,P-XYLENE	12.055	91	26066	1.02	PPBV #	32
81) O-XYLENE	13.029	91	12952	0.50	PPBV	98
82) STYRENE	12.817	104	10515	0.48	PPBV	100
83) NONANE	14.148	43	7037	0.50	PPBV	95
84) BROMOFORM	11.904	173	5012	0.36	PPBV #	96
85) 1,1,2,2-TETRACHLOROETHANE	13.036	83	9312	0.49	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	13.328	75	6497	0.48	PPBV #	99
88) ISOPROPYLBENZENE	14.550	120	5215	0.48	PPBV	99
89) BROMOBENZENE	14.428	77	8229	0.49	PPBV	99
90) 2-CHLOROTOLUENE	15.569	126	4480	0.46	PPBV #	85
91) N-PROPYLBENZENE	15.907	120	5049	0.46	PPBV	97
92) 4-ETHYLTOLUENE	16.222	105	17360	0.49	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	16.367	105	13287	0.46	PPBV	98
94) ALPHA-METHYLSTYRENE	16.556	118	7457	0.46	PPBV	99
95) TERT-BUTYLBENZENE	16.807	134	3810	0.47	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	16.814	105	13431	0.47	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52198.D
 Acq On : 5 Mar 2021 1:53 pm
 Operator : danat
 Sample : ic2318-0.5
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 14:19:24 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 13:47:21 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.894	91	5306	0.32	PPBV	99
98) M-DICHLOROBENZENE	16.875	146	10288	0.50	PPBV	98
99) P-DICHLOROBENZENE	16.955	146	10313	0.51	PPBV	99
100) O-DICHLOROBENZENE	17.245	146	9115	0.49	PPBV	99
101) SEC-BUTYLBENZENE	17.084	134	4496	0.46	PPBV	96
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	12908	0.47	PPBV	99
103) P-ISOPROPYLTOLUENE	17.261	134	4653	0.46	PPBV	99
104) N-BUTYLBENZENE	17.601	134	4321	0.46	PPBV	98
105) HEXACHLOROETHANE	17.782	117	3105	0.33	PPBV	97
106) HEXACHLOROBUTADIENE	18.817	225	5329	0.50	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	7358	0.61	PPBV	99
108) NAPHTHALENE	18.556	128	18739	0.78	PPBV	99

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

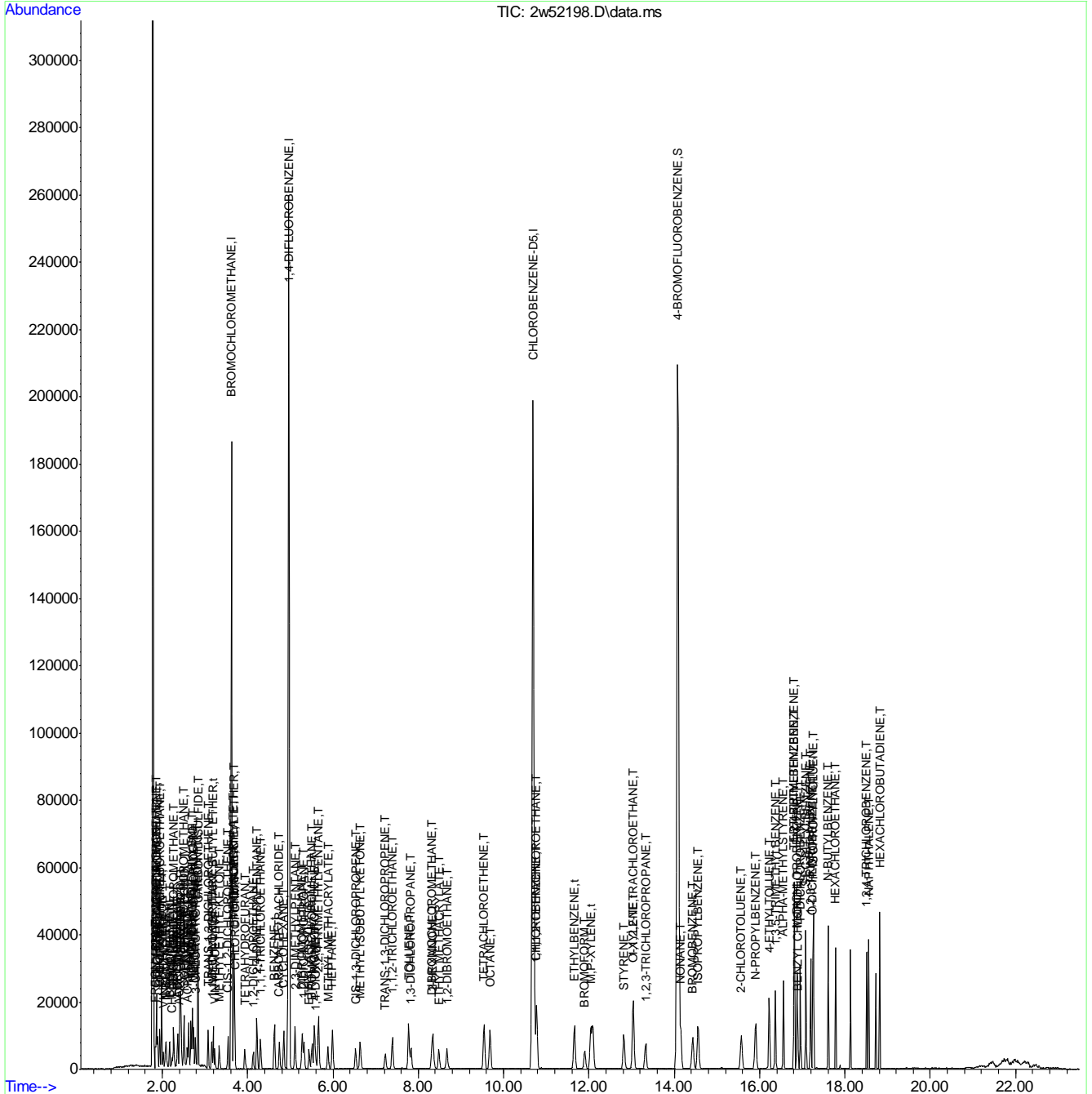
7.7.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w52198.D
Acq On : 5 Mar 2021 1:53 pm
Operator : danat
Sample : ic2318-0.5
Misc : MS49231,V2W2318,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 14:19:24 2021
Quant Method : C:\msdchem\1\METHODS\M2W2318.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Mar 05 13:47:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:43 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 14:21:06 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.624	128	46716	10.00	PPBV	0.00	
52) 1,4-DIFLUOROBENZENE	4.968	114	241987	10.00	PPBV	0.00	
76) CHLOROBENZENE-D5	10.692	117	215813	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.084	95	133885	10.07	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.840	65	790	0.19	PPBV	#	58
4) CHLORODIFLUOROMETHANE	1.856	67	240	0.18	PPBV	#	39
5) CHLOROTRIFLUOROETHENE	1.872	116	2099	0.20	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.891	85	3202	0.21	PPBV		98
7) PROPYLENE	1.869	41	915	0.22	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.943	65	2026	0.20	PPBV	#	91
9) FREON 114	1.988	85	3454	0.20	PPBV		91
10) CHLOROMETHANE	1.952	52	301	0.19	PPBV	#	69
11) VINYL CHLORIDE	2.026	62	1466	0.21	PPBV	#	92
12) 1,3-BUTADIENE	2.078	54	1022	0.21	PPBV		97
13) N-BUTANE	2.100	43	1685	0.21	PPBV	#	99
14) BROMOMETHANE	2.174	94	1403	0.20	PPBV	#	91
15) CHLOROETHANE	2.239	64	758	0.19	PPBV	#	81
16) DICHLOROFLUOROMETHANE	2.274	67	2815	0.21	PPBV	#	94
17) ACETONITRILE	2.358	41	1164	0.22	PPBV	#	84
18) ACROLEIN	2.399	56	572	0.19	PPBV		86
19) FREON 123	2.419	83	3299	0.20	PPBV		100
20) FREON 123A	2.438	117	1893	0.21	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.509	101	2860	0.21	PPBV		99
22) ISOPROPYL ALCOHOL	2.522	45	2677	0.25	PPBV	#	89
23) ACETONE	2.444	58	890	0.25	PPBV		92
24) PENTANE	2.618	42	1148	0.22	PPBV		98
25) IODOMETHANE	2.673	142	4033	0.21	PPBV		98
26) 1,1-DICHLOROETHYLENE	2.705	96	1436	0.20	PPBV		96
27) CARBON DISULFIDE	2.837	76	2893	0.19	PPBV	#	82
29) BROMOETHENE	2.364	106	1527	0.21	PPBV	#	88
30) ACRYLONITRILE	2.592	52	850	0.21	PPBV		89
31) METHYLENE CHLORIDE	2.740	84	1612	0.24	PPBV		94
32) 3-CHLOROPROPENE	2.782	76	646	0.19	PPBV		81
33) FREON 113	2.837	151	2559	0.21	PPBV		96
34) TRANS-1,2-DICHLOROETHENE	3.078	96	1475	0.21	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.714	59	2283	0.20	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	3.197	73	3256	0.20	PPBV	#	88
37) TETRAHYDROFURAN	3.936	72	684	0.20	PPBV		98
38) HEXANE	3.679	57	2112	0.21	PPBV		99
39) VINYL ACETATE	3.235	86	280	0.17	PPBV	#	61
40) 1,1-DICHLOROETHANE	3.158	63	2127	0.20	PPBV		94
41) METHYL ETHYL KETONE	3.338	72	712	0.20	PPBV	#	84
42) CIS-1,2-DICHLOROETHENE	3.544	96	1587	0.21	PPBV		97
43) DIISOPROPYL ETHER	3.685	59	646	0.22	PPBV		82
44) ETHYL ACETATE	3.695	61	347	0.18	PPBV	#	50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:43 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 14:21:06 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) METHYL ACRYLATE	3.679	55	2244	0.20	PPBV #	75
46) CHLOROFORM	3.695	83	2465	0.20	PPBV #	82
47) 2,4-DIMETHYLPENTANE	4.222	57	2464	0.20	PPBV	99
48) 1,1,1-TRICHLOROETHANE	4.303	97	2148	0.20	PPBV	92
49) CARBON TETRACHLORIDE	4.747	117	1806	0.18	PPBV	97
50) 1,2-DICHLOROETHANE	4.132	62	1382	0.20	PPBV #	88
51) BENZENE	4.631	78	4768	0.21	PPBV	97
53) CYCLOHEXANE	4.843	84	2047	0.19	PPBV	98
54) 2,3-DIMETHYLPENTANE	5.110	71	1025	0.19	PPBV #	93
55) TRICHLOROETHENE	5.573	95	1953	0.20	PPBV	100
56) 1,2-DICHLOROPROPANE	5.329	63	1590	0.20	PPBV	93
57) DIBROMOMETHANE	5.283	174	2213	0.22	PPBV	93
58) ETHYL ACRYLATE	5.447	55	2547	0.19	PPBV #	83
59) BROMODICHLOROMETHANE	5.512	83	2249	0.18	PPBV	97
60) 2,2,4-TRIMETHYLPENTANE	5.663	57	6747	0.21	PPBV #	97
61) 1,4-DIOXANE	5.605	88	1341	0.24	PPBV #	79
62) HEPTANE	5.994	43	1979	0.19	PPBV	99
63) METHYL METHACRYLATE	5.882	69	1464	0.19	PPBV	97
64) METHYL ISOBUTYL KETONE	6.644	58	1226	0.19	PPBV #	92
65) CIS-1,3-DICHLOROPROPENE	6.534	75	1980	0.18	PPBV	96
66) TOLUENE	7.775	91	6179	0.21	PPBV	97
67) 1,3-DICHLOROPROPANE	7.833	76	2446	0.19	PPBV #	96
68) TRANS-1,3-DICHLOROPROPENE	7.235	75	1513	0.17	PPBV #	69
69) 1,1,2-TRICHLOROETHANE	7.393	83	1559	0.20	PPBV	95
70) 2-HEXANONE	8.357	58	1889	0.22	PPBV #	97
71) ETHYL METHACRYLATE	8.489	69	2075	0.17	PPBV #	95
72) TETRACHLOROETHENE	9.547	164	2281	0.20	PPBV	96
73) DIBROMOCHLOROMETHANE	8.325	129	2115	0.17	PPBV	97
74) 1,2-DIBROMOETHANE	8.682	107	2375	0.18	PPBV #	93
75) OCTANE	9.679	43	2840	0.21	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	10.782	131	1651	0.18	PPBV #	69
78) CHLOROBENZENE	10.775	112	4513	0.20	PPBV	99
79) ETHYLBENZENE	11.659	91	7551	0.22	PPBV	99
80) M,P-XYLENE	12.090	91	11050	0.44	PPBV	98
81) O-XYLENE	13.045	91	5640	0.22	PPBV	93
82) STYRENE	12.820	104	4191	0.20	PPBV	98
83) NONANE	14.151	43	2710	0.20	PPBV	93
84) BROMOFORM	11.904	173	1706m	0.15	PPBV	
85) 1,1,2,2-TETRACHLOROETHANE	13.039	83	3691	0.20	PPBV #	96
86) 1,2,3-TRICHLOROPROPANE	13.328	75	2683	0.21	PPBV #	99
88) ISOPROPYLBENZENE	14.566	120	1993	0.19	PPBV #	59
89) BROMOBENZENE	14.441	77	3247	0.20	PPBV	99
90) 2-CHLOROTOLUENE	15.576	126	1779m	0.19	PPBV	
91) N-PROPYLBENZENE	15.913	120	2064	0.20	PPBV	93
92) 4-ETHYLTOLUENE	16.225	105	6667	0.19	PPBV #	97
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	5593	0.21	PPBV	93
94) ALPHA-METHYLSTYRENE	16.560	118	3027	0.20	PPBV	99
95) TERT-BUTYLBENZENE	16.807	134	1507	0.20	PPBV	100
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	5326	0.20	PPBV	99
97) BENZYL CHLORIDE	16.897	91	2187	0.16	PPBV	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:43 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 14:21:06 2021
 Response via : Initial Calibration

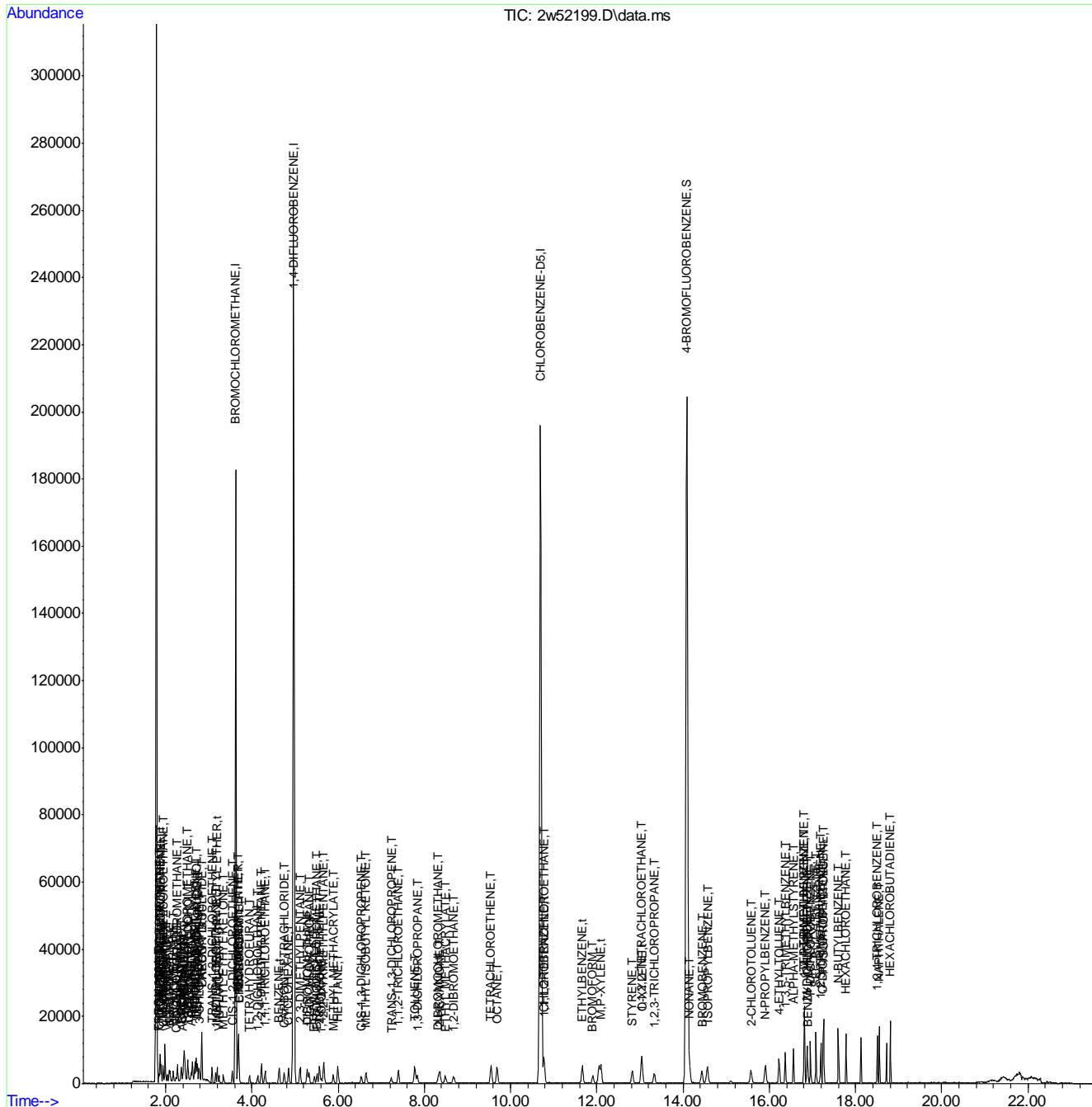
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) M-DICHLOROBENZENE	16.875	146	4195	0.21	PPBV	98
99) P-DICHLOROBENZENE	16.955	146	4021	0.20	PPBV	95
100) O-DICHLOROBENZENE	17.244	146	3803	0.21	PPBV	98
101) SEC-BUTYLBENZENE	17.080	134	1825	0.20	PPBV	98
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	5194	0.20	PPBV	97
103) P-ISOPROPYLTOLUENE	17.257	134	1835	0.19	PPBV	91
104) N-BUTYLBENZENE	17.598	134	1646	0.19	PPBV	93
105) HEXACHLOROETHANE	17.775	117	1084	0.14	PPBV	95
106) HEXACHLOROBUTADIENE	18.807	225	2148	0.21	PPBV	98
107) 1,2,4-TRICHLOROBENZENE	18.502	180	2789	0.21	PPBV	91
108) NAPHTHALENE	18.550	128	7867	0.26	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w52199.D
Acq On : 5 Mar 2021 2:24 pm
Operator : danat
Sample : ic2318-0.2
Misc : MS49231,V2W2318,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:43 2021
Quant Method : C:\msdchem\1\METHODS\M2W2318.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Mar 05 14:21:06 2021
Response via : Initial Calibration



7.7.3
7

Manual Integration Approval Summary

Sample Number: V2W2318-IC2318 Method: TO-15
Lab FileID: 2W52199.D Analyst approved: 03/09/21 10:38 Dana Tryon
Injection Time: 03/05/21 14:24 Supervisor approved: 03/09/21 11:21 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Bromoform	75-25-2		11.90	Poor instrument integration
2-Chlorotoluene	95-49-8		15.58	Poor instrument integration

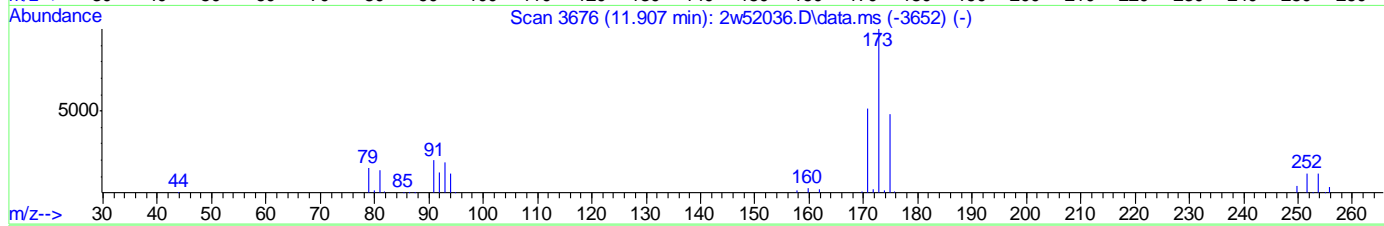
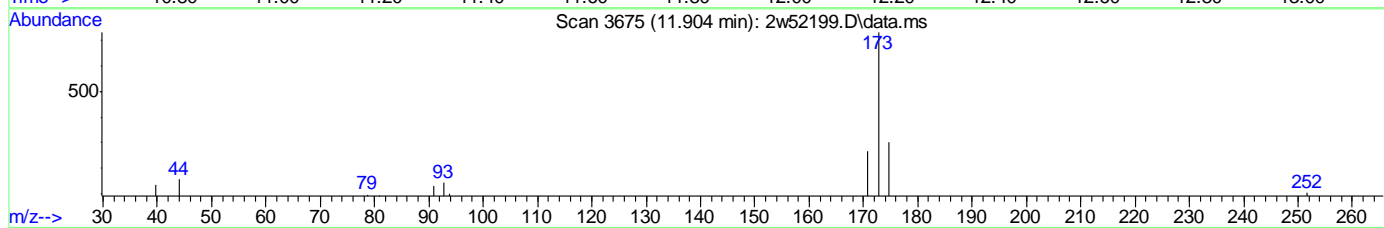
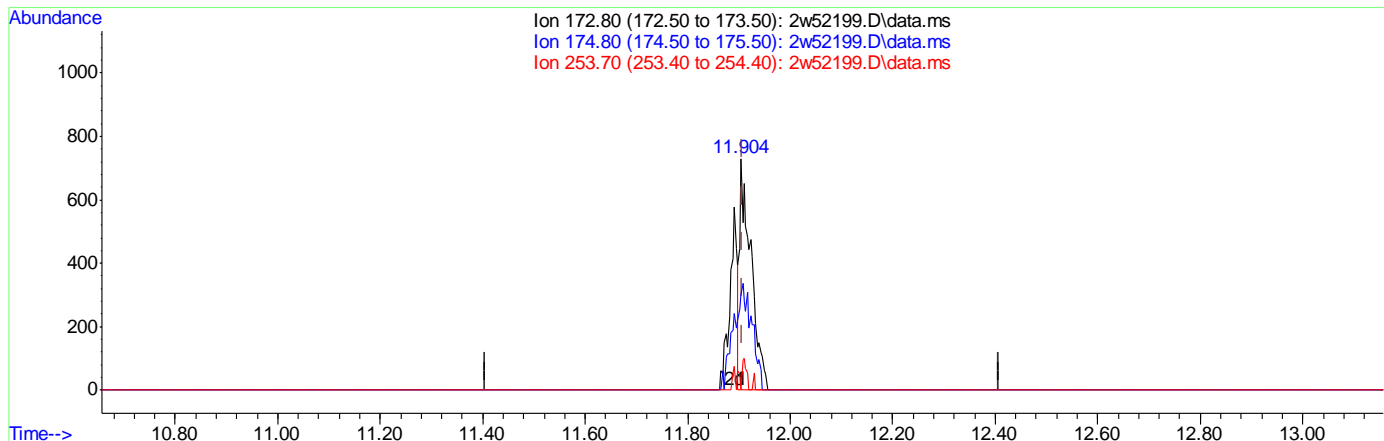
7.7.3.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:21:06 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2310.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration



TIC: 2w52199.D\data.ms

(84) BROMOFORM (T)

11.904min (-0.003) 0.08PPBV

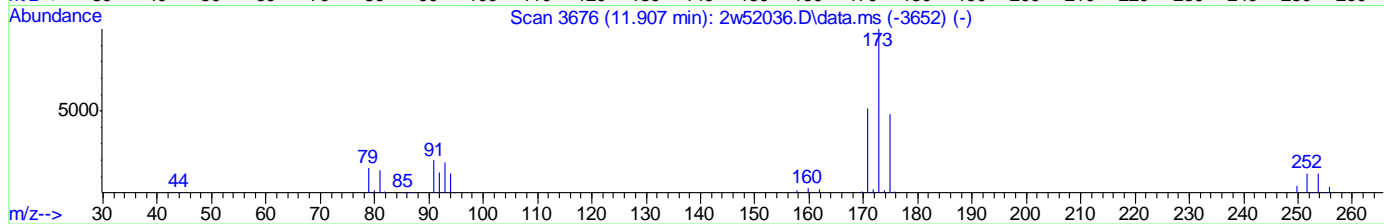
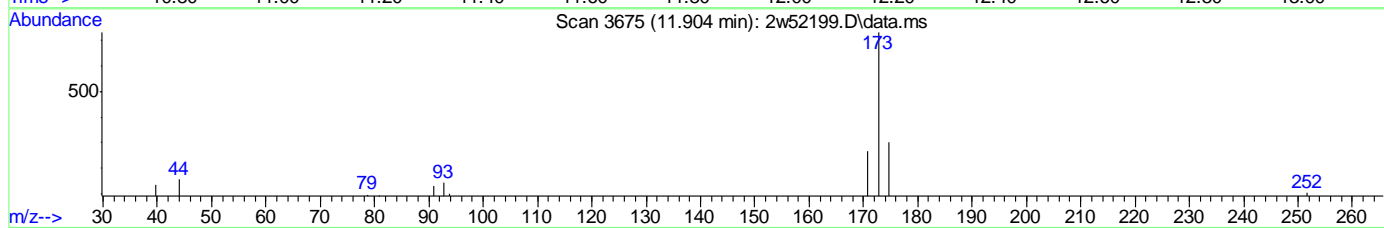
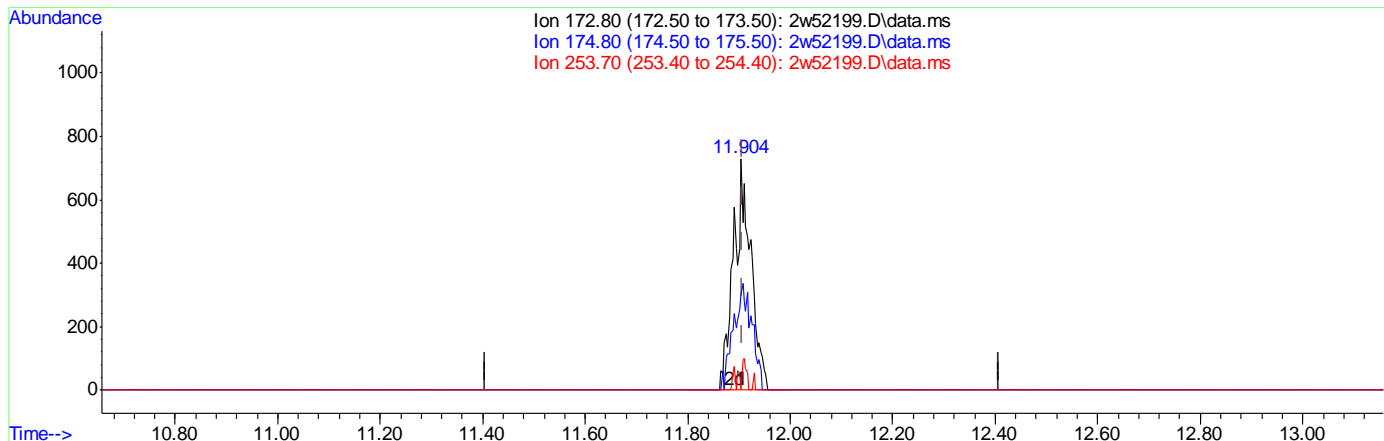
response 1124

Ion	Exp%	Act%
172.80	100	100
174.80	49.10	74.64#
253.70	12.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:21:06 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2310.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration



TIC: 2w52199.D\data.ms

(84) BROMOFORM (T)

11.904min (-0.003) 0.13PPBV m

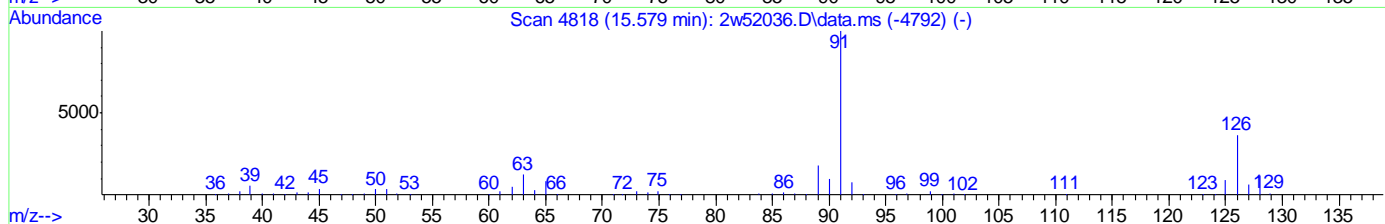
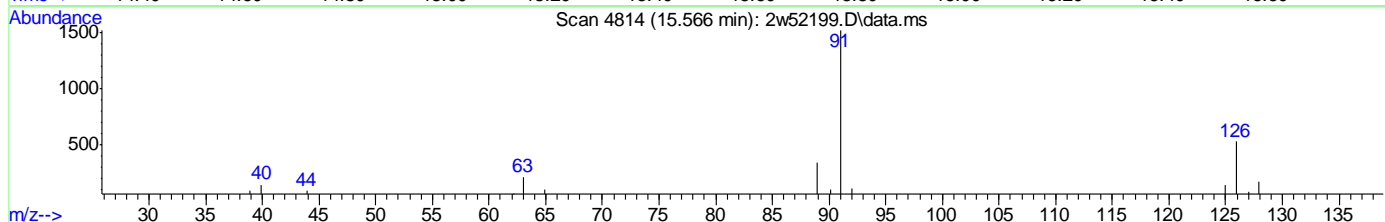
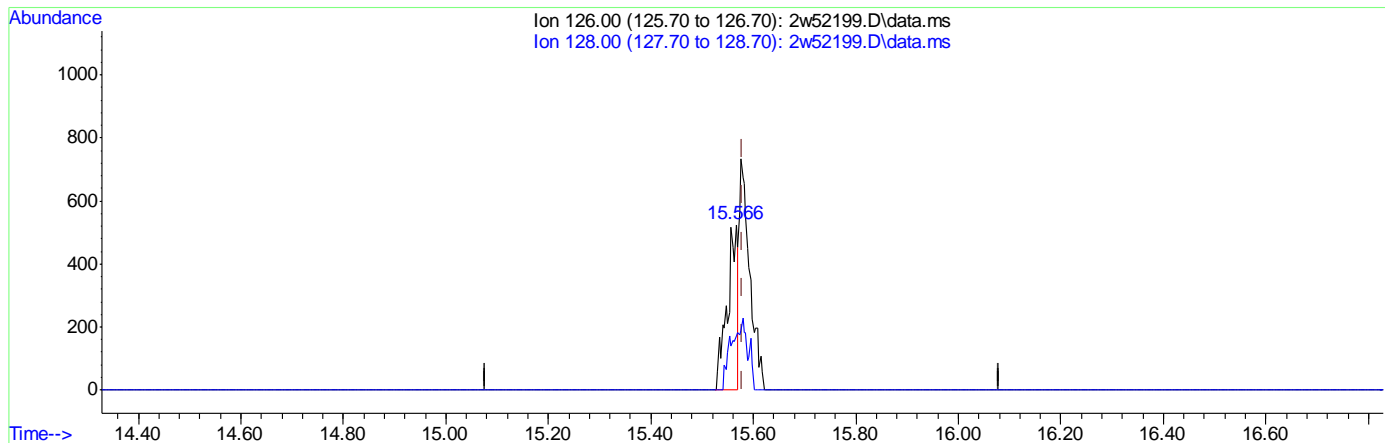
response 1706

Ion	Exp%	Act%
172.80	100	100
174.80	49.10	49.18
253.70	12.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:21:06 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2310.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration



TIC: 2w52199.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.566min (-0.013) 0.08PPBV

response 733

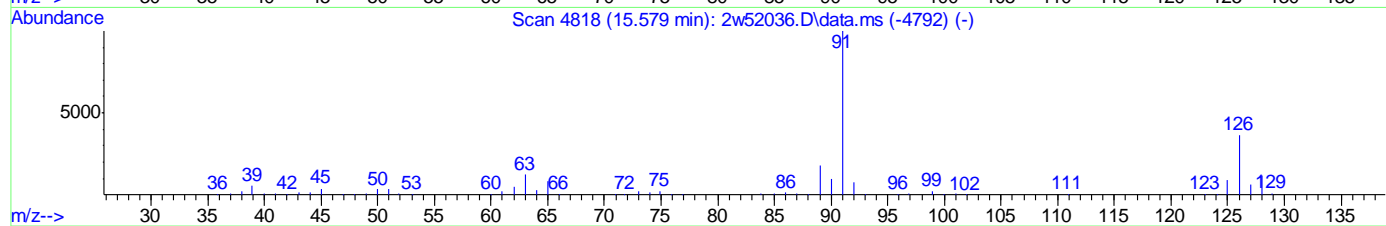
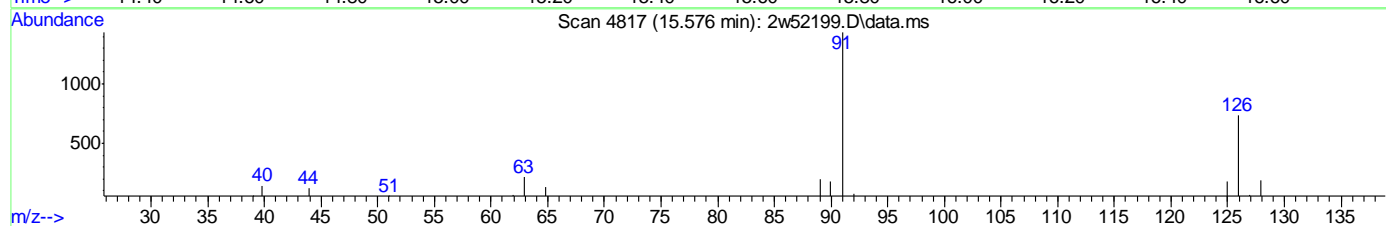
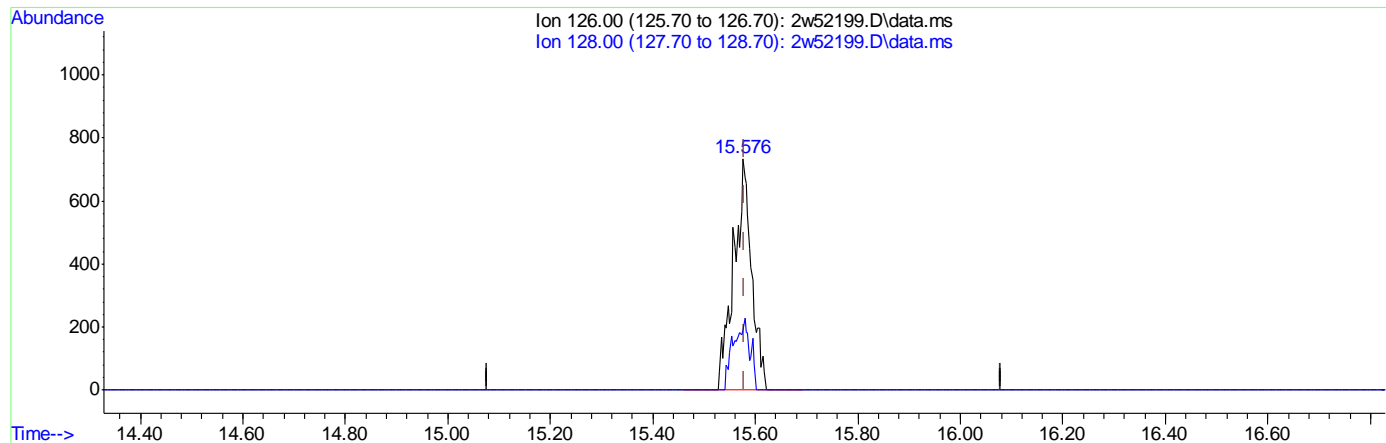
Ion	Exp%	Act%
126.00	100	100
128.00	32.20	69.58#
0.00	0.00	0.00
0.00	0.00	0.00

7.7.3.4
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:21:06 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2310.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Feb 26 09:53:06 2021
 Response via : Initial Calibration



TIC: 2w52199.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.576min (-0.003) 0.19PPBV m

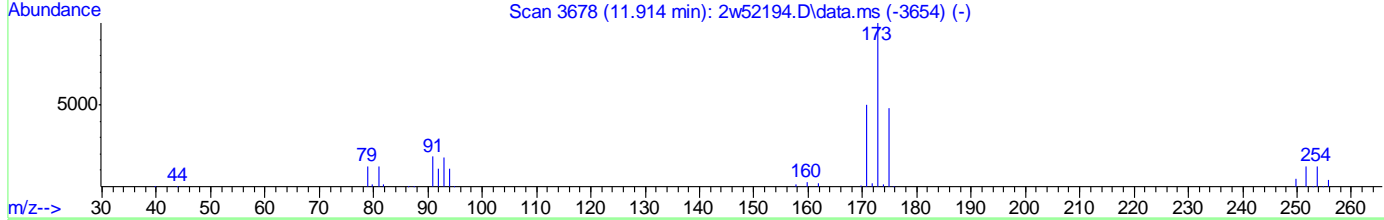
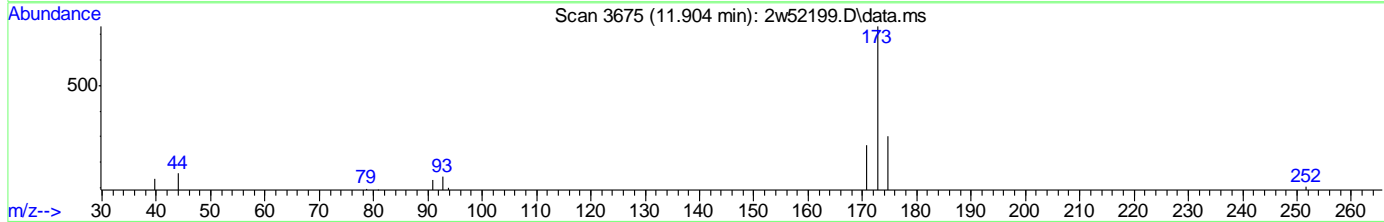
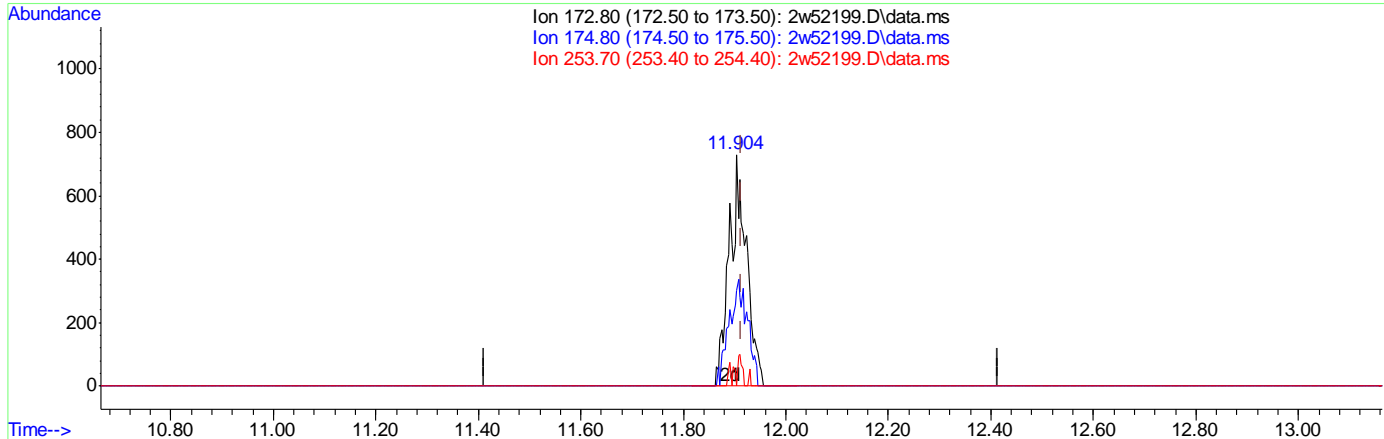
response 1778

Ion	Exp%	Act%
126.00	100	100
128.00	32.20	28.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:23:05 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 14:21:06 2021
 Response via : Initial Calibration



TIC: 2w52199.D\data.ms

(84) BROMOFORM (T)
 11.904min (-0.010) 0.15PPBV m
 response 1706

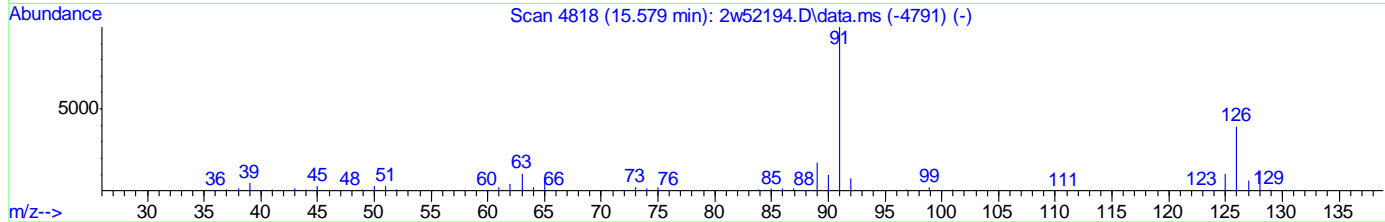
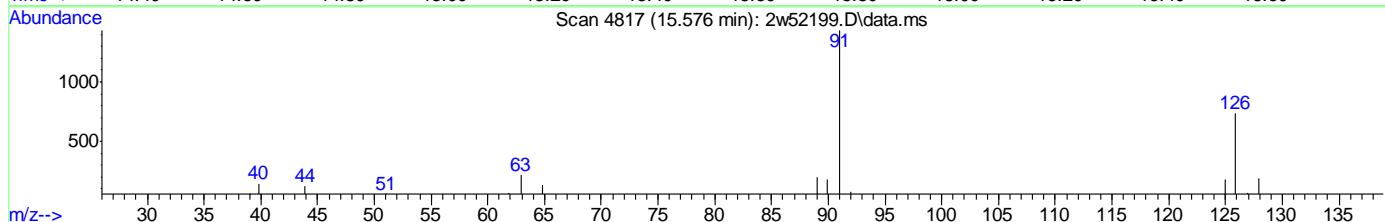
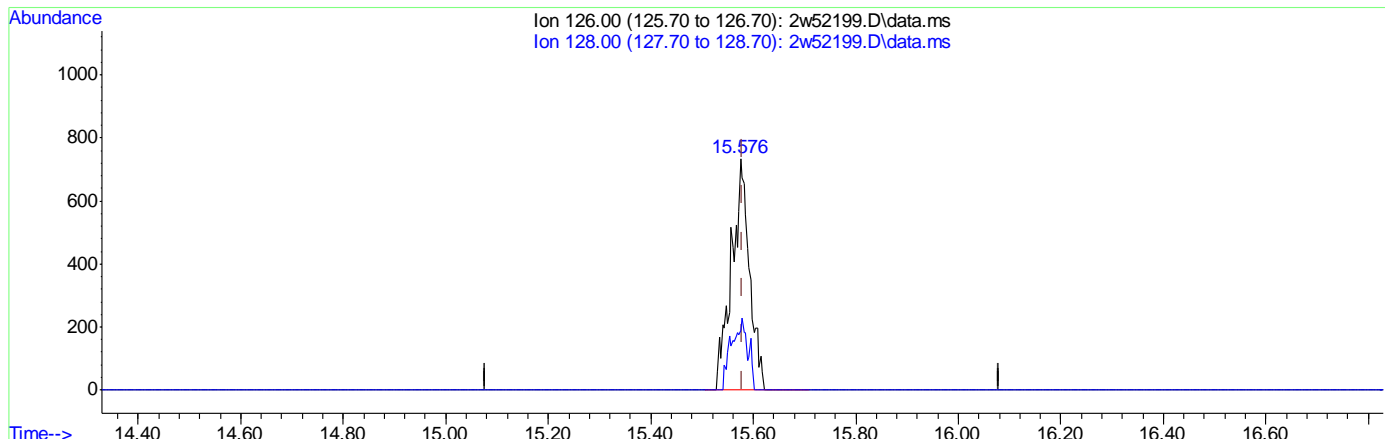
Ion	Exp%	Act%
172.80	100	100
174.80	48.20	49.18
253.70	12.30	0.00#
0.00	0.00	0.00

7.7.3.6
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52199.D
 Acq On : 5 Mar 2021 2:24 pm
 Operator : danat
 Sample : ic2318-0.2
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:23:05 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 14:21:06 2021
 Response via : Initial Calibration



TIC: 2w52199.D\data.ms

(90) 2-CHLOROTOLUENE (T)
 15.576min (-0.003) 0.19PPBV m
 response 1779

Ion	Exp%	Act%
126.00	100	100
128.00	31.90	28.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52200.D
 Acq On : 5 Mar 2021 2:56 pm
 Operator : danat
 Sample : ic2318-0.1
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:53 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:24:37 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.621	128	47748	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.968	114	244187	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.692	117	216911	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	133825	9.99	PPBV	0.00
Target Compounds						
						Qvalue
3) FREON 152A	1.833	65	397	0.10	PPBV	# 58
5) CHLOROTRIFLUOROETHENE	1.866	116	1014	0.10	PPBV	# 88
6) DICHLORODIFLUOROMETHANE	1.888	85	1568	0.10	PPBV	95
7) PROPYLENE	1.866	41	487	0.11	PPBV	91
8) 1-CHLORO-1,1-DIFLUOROE...	1.936	65	1031	0.10	PPBV	# 82
9) FREON 114	1.981	85	1819	0.10	PPBV	100
10) CHLOROMETHANE	1.946	52	148	0.09	PPBV	77
11) VINYL CHLORIDE	2.020	62	666	0.09	PPBV	# 89
12) 1,3-BUTADIENE	2.068	54	487	0.10	PPBV	88
13) N-BUTANE	2.094	43	911	0.11	PPBV	# 91
14) BROMOMETHANE	2.168	94	777	0.11	PPBV	# 88
15) CHLOROETHANE	2.235	64	360	0.09	PPBV	# 47
16) DICHLOROFLUOROMETHANE	2.261	67	1394	0.10	PPBV	# 96
17) ACETONITRILE	2.351	41	681	0.12	PPBV	# 45
18) ACROLEIN	2.396	56	272	0.09	PPBV	# 76
19) FREON 123	2.412	83	1670	0.10	PPBV	96
20) FREON 123A	2.432	117	990	0.11	PPBV	99
21) TRICHLOROFLUOROMETHANE	2.502	101	1480	0.10	PPBV	97
22) ISOPROPYL ALCOHOL	2.518	45	1444	0.12	PPBV	# 93
23) ACETONE	2.441	58	509	0.13	PPBV	92
24) PENTANE	2.618	42	584	0.11	PPBV	94
25) IODOMETHANE	2.673	142	1983	0.10	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.702	96	751	0.10	PPBV	85
27) CARBON DISULFIDE	2.837	76	1401	0.09	PPBV	# 82
29) BROMOETHENE	2.361	106	700	0.09	PPBV	# 92
30) ACRYLONITRILE	2.586	52	349	0.08	PPBV	# 80
31) METHYLENE CHLORIDE	2.734	84	967	0.13	PPBV	96
32) 3-CHLOROPROPENE	2.776	76	355	0.10	PPBV	97
33) FREON 113	2.833	151	1276	0.10	PPBV	91
34) TRANS-1,2-DICHLOROETHENE	3.078	96	637	0.09	PPBV	89
35) TERTIARY BUTYL ALCOHOL	2.711	59	1215	0.11	PPBV	# 87
36) METHYL TERTIARY BUTYL ...	3.197	73	1710	0.10	PPBV	# 88
37) TETRAHYDROFURAN	3.946	72	272	0.08	PPBV	88
38) HEXANE	3.673	57	1068	0.10	PPBV	98
39) VINYL ACETATE	3.232	86	134	0.08	PPBV	# 57
40) 1,1-DICHLOROETHANE	3.161	63	1065	0.10	PPBV	# 94
41) METHYL ETHYL KETONE	3.345	72	380	0.10	PPBV	# 94
42) CIS-1,2-DICHLOROETHENE	3.550	96	880	0.11	PPBV	86
43) DIISOPROPYL ETHER	3.685	59	284	0.09	PPBV	90
44) ETHYL ACETATE	3.689	61	129	0.07	PPBV	# 1
45) METHYL ACRYLATE	3.676	55	1129	0.10	PPBV	# 75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52200.D
 Acq On : 5 Mar 2021 2:56 pm
 Operator : danat
 Sample : ic2318-0.1
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:53 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:24:37 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) CHLOROFORM	3.698	83	1338	0.11	PPBV #	82
47) 2,4-DIMETHYLPENTANE	4.222	57	1248	0.10	PPBV	98
48) 1,1,1-TRICHLOROETHANE	4.303	97	1062	0.10	PPBV	92
49) CARBON TETRACHLORIDE	4.747	117	815	0.08	PPBV	96
50) 1,2-DICHLOROETHANE	4.132	62	656	0.09	PPBV #	88
51) BENZENE	4.628	78	2574	0.11	PPBV	90
53) CYCLOHEXANE	4.846	84	974	0.09	PPBV	90
54) 2,3-DIMETHYLPENTANE	5.107	71	486	0.09	PPBV #	91
55) TRICHLOROETHENE	5.570	95	1018	0.10	PPBV	92
56) 1,2-DICHLOROPROPANE	5.325	63	752	0.09	PPBV #	85
57) DIBROMOMETHANE	5.277	174	1083	0.10	PPBV	95
58) ETHYL ACRYLATE	5.447	55	1277	0.10	PPBV #	72
59) BROMODICHLOROMETHANE	5.505	83	1119	0.09	PPBV	92
60) 2,2,4-TRIMETHYLPENTANE	5.669	57	3334	0.10	PPBV	99
61) 1,4-DIOXANE	5.618	88	546	0.09	PPBV #	72
62) HEPTANE	5.994	43	991	0.10	PPBV	93
63) METHYL METHACRYLATE	5.885	69	666	0.09	PPBV	93
64) METHYL ISOBUTYL KETONE	6.644	58	534	0.08	PPBV #	78
65) CIS-1,3-DICHLOROPROPENE	6.541	75	904	0.09	PPBV #	86
66) TOLUENE	7.775	91	3081	0.10	PPBV	98
67) 1,3-DICHLOROPROPANE	7.833	76	1138	0.09	PPBV #	92
68) TRANS-1,3-DICHLOROPROPENE	7.235	75	649	0.08	PPBV #	86
69) 1,1,2-TRICHLOROETHANE	7.390	83	760	0.10	PPBV	94
70) 2-HEXANONE	8.351	58	936	0.10	PPBV #	92
71) ETHYL METHACRYLATE	8.486	69	921	0.08	PPBV #	69
72) TETRACHLOROETHENE	9.547	164	1142	0.10	PPBV #	62
73) DIBROMOCHLOROMETHANE	8.312	129	952	0.08	PPBV #	95
74) 1,2-DIBROMOETHANE	8.676	107	1226	0.09	PPBV #	97
75) OCTANE	9.682	43	1436	0.10	PPBV #	66
77) 1,1,1,2-TETRACHLOROETHANE	10.778	131	793	0.09	PPBV #	65
78) CHLOROBENZENE	10.775	112	2174	0.10	PPBV	99
79) ETHYLBENZENE	11.659	91	4223	0.12	PPBV	99
80) M,P-XYLENE	12.087	91	6135	0.23	PPBV #	32
81) O-XYLENE	13.036	91	3081	0.12	PPBV	95
82) STYRENE	12.823	104	2201	0.10	PPBV #	82
83) NONANE	14.145	43	1420	0.10	PPBV	87
84) BROMOFORM	11.913	173	737	0.07	PPBV #	93
85) 1,1,2,2-TETRACHLOROETHANE	13.045	83	1747	0.09	PPBV #	58
86) 1,2,3-TRICHLOROPROPANE	13.341	75	1241	0.09	PPBV #	99
88) ISOPROPYLBENZENE	14.563	120	897	0.09	PPBV	99
89) BROMOBENZENE	14.428	77	1690	0.10	PPBV	94
90) 2-CHLOROTOLUENE	15.566	126	887	0.10	PPBV #	43
91) N-PROPYLBENZENE	15.907	120	1006	0.10	PPBV #	63
92) 4-ETHYLTOLUENE	16.232	105	3300	0.10	PPBV #	99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	2785	0.10	PPBV #	98
94) ALPHA-METHYLSTYRENE	16.560	118	1422	0.09	PPBV	99
95) TERT-BUTYLBENZENE	16.810	134	770	0.10	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	16.814	105	2617	0.10	PPBV	96
97) BENZYL CHLORIDE	16.897	91	1057	0.08	PPBV #	85
98) M-DICHLOROBENZENE	16.875	146	2030	0.10	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52200.D
 Acq On : 5 Mar 2021 2:56 pm
 Operator : danat
 Sample : ic2318-0.1
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:53 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:24:37 2021
 Response via : Initial Calibration

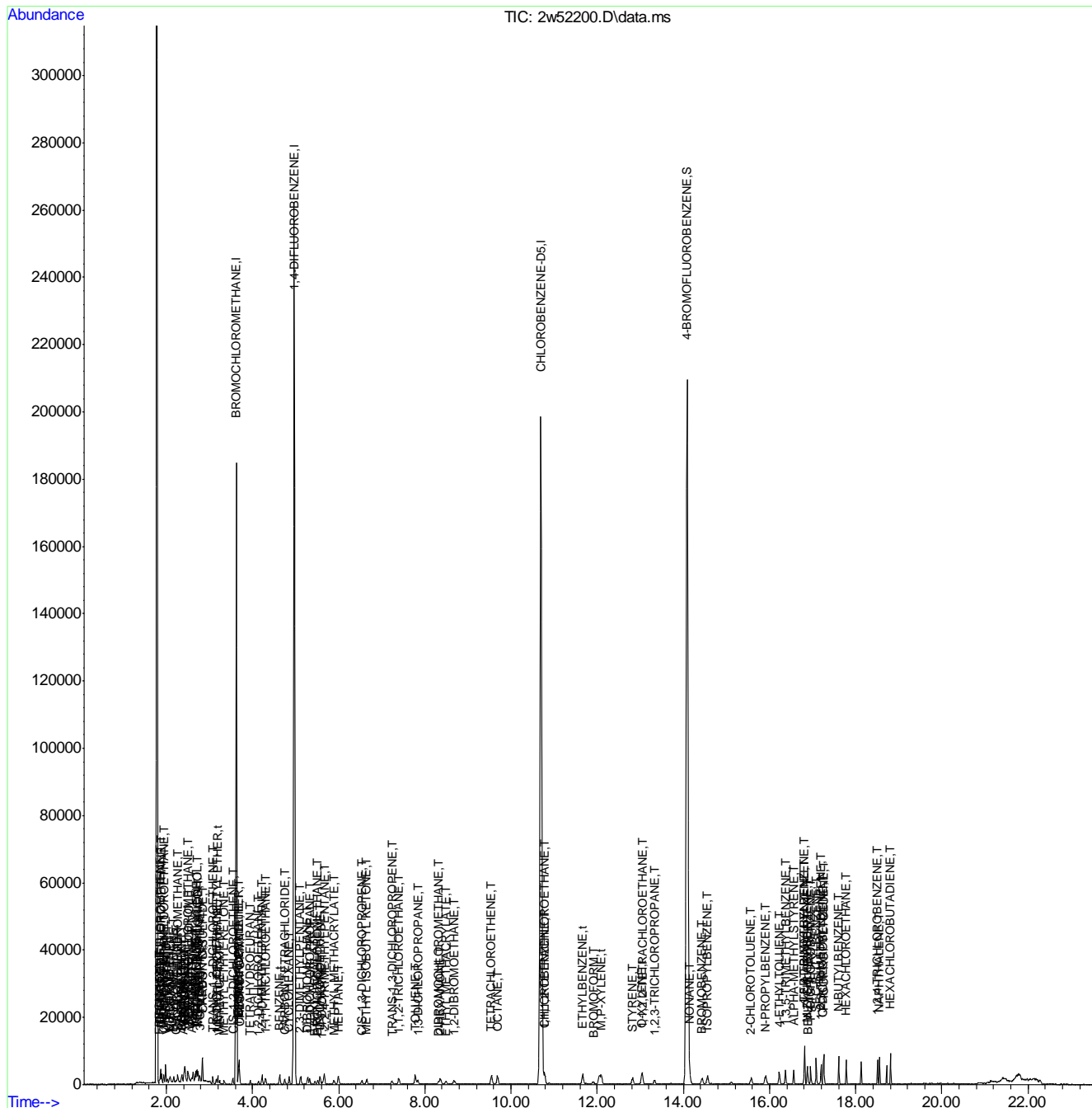
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) P-DICHLOROBENZENE	16.955	146	2051	0.10	PPBV	98
100) O-DICHLOROBENZENE	17.244	146	1895	0.10	PPBV	98
101) SEC-BUTYLBENZENE	17.084	134	869	0.09	PPBV	80
102) 1,2,3-TRIMETHYLBENZENE	17.190	105	2632	0.10	PPBV	98
103) P-ISOPROPYLTOLUENE	17.260	134	873	0.09	PPBV	86
104) N-BUTYLBENZENE	17.601	134	786	0.09	PPBV	87
105) HEXACHLOROETHANE	17.778	117	534	0.08	PPBV	90
106) HEXACHLOROBUTADIENE	18.807	225	1157	0.11	PPBV	98
107) 1,2,4-TRICHLOROBENZENE	18.502	180	1578	0.12	PPBV	98
108) NAPHTHALENE	18.553	128	4146	0.12	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52200.D
 Acq On : 5 Mar 2021 2:56 pm
 Operator : danat
 Sample : ic2318-0.1
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 17:32:53 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:24:37 2021
 Response via : Initial Calibration



7.7.4
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52201.D
 Acq On : 5 Mar 2021 3:27 pm
 Operator : danat
 Sample : ic2318-0.04
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:58:29 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:38:51 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.624	128	48476	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.968	114	244988	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.695	117	218424	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	135520	10.05	PPBV	0.00
Target Compounds						
						Qvalue
5) CHLOROTRIFLUOROETHENE	1.875	116	444	0.04	PPBV	# 1
6) DICHLORODIFLUOROMETHANE	1.891	85	656	0.04	PPBV	# 87
7) PROPYLENE	1.872	41	201	0.04	PPBV	# 88
8) 1-CHLORO-1,1-DIFLUOROE...	1.940	65	421	0.04	PPBV	# 38
9) FREON 114	1.985	85	751	0.04	PPBV	# 93
11) VINYL CHLORIDE	2.030	62	263	0.04	PPBV	# 50
12) 1,3-BUTADIENE	2.081	54	155	0.03	PPBV	# 39
13) N-BUTANE	2.097	43	377	0.04	PPBV	# 59
14) BROMOMETHANE	2.171	94	268	0.04	PPBV	# 94
15) CHLOROETHANE	2.239	64	119	0.03	PPBV	# 47
16) DICHLOROFLUOROMETHANE	2.268	67	581	0.04	PPBV	# 89
17) ACETONITRILE	2.348	41	239	0.04	PPBV	# 35
18) ACROLEIN	2.403	56	103	0.03	PPBV	# 16
19) FREON 123	2.422	83	739	0.04	PPBV	# 87
20) FREON 123A	2.435	117	307	0.03	PPBV	# 67
21) TRICHLOROFLUOROMETHANE	2.509	101	606	0.04	PPBV	# 94
22) ISOPROPYL ALCOHOL	2.522	45	645	0.05	PPBV	# 86
24) PENTANE	2.618	42	233	0.04	PPBV	# 57
25) IODOMETHANE	2.676	142	839	0.04	PPBV	# 91
26) 1,1-DICHLOROETHYLENE	2.702	96	342	0.05	PPBV	# 73
27) CARBON DISULFIDE	2.834	76	574	0.04	PPBV	# 70
29) BROMOETHENE	2.361	106	244	0.03	PPBV	# 98
30) ACRYLONITRILE	2.592	52	171	0.04	PPBV	# 77
32) 3-CHLOROPROPENE	2.779	76	125	0.04	PPBV	# 50
33) FREON 113	2.837	151	466	0.04	PPBV	# 92
34) TRANS-1,2-DICHLOROETHENE	3.078	96	289	0.04	PPBV	# 93
35) TERTIARY BUTYL ALCOHOL	2.715	59	413	0.03	PPBV	# 71
36) METHYL TERTIARY BUTYL ...	3.194	73	618	0.04	PPBV	# 88
38) HEXANE	3.679	57	453	0.04	PPBV	# 88
40) 1,1-DICHLOROETHANE	3.158	63	386	0.04	PPBV	# 83
41) METHYL ETHYL KETONE	3.345	72	147	0.04	PPBV	# 71
42) CIS-1,2-DICHLOROETHENE	3.544	96	310	0.04	PPBV	# 95
43) DIISOPROPYL ETHER	3.689	59	113	0.04	PPBV	# 99
45) METHYL ACRYLATE	3.676	55	463	0.04	PPBV	# 61
46) CHLOROFORM	3.705	83	516	0.04	PPBV	# 75
47) 2,4-DIMETHYLPENTANE	4.226	57	466	0.04	PPBV	# 69
48) 1,1,1-TRICHLOROETHANE	4.306	97	370	0.03	PPBV	# 95
49) CARBON TETRACHLORIDE	4.753	117	350	0.04	PPBV	# 75
50) 1,2-DICHLOROETHANE	4.133	62	211	0.03	PPBV	# 49
51) BENZENE	4.628	78	1059	0.04	PPBV	# 68
53) CYCLOHEXANE	4.853	84	367	0.04	PPBV	# 83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52201.D
 Acq On : 5 Mar 2021 3:27 pm
 Operator : danat
 Sample : ic2318-0.04
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:58:29 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:38:51 2021
 Response via : Initial Calibration

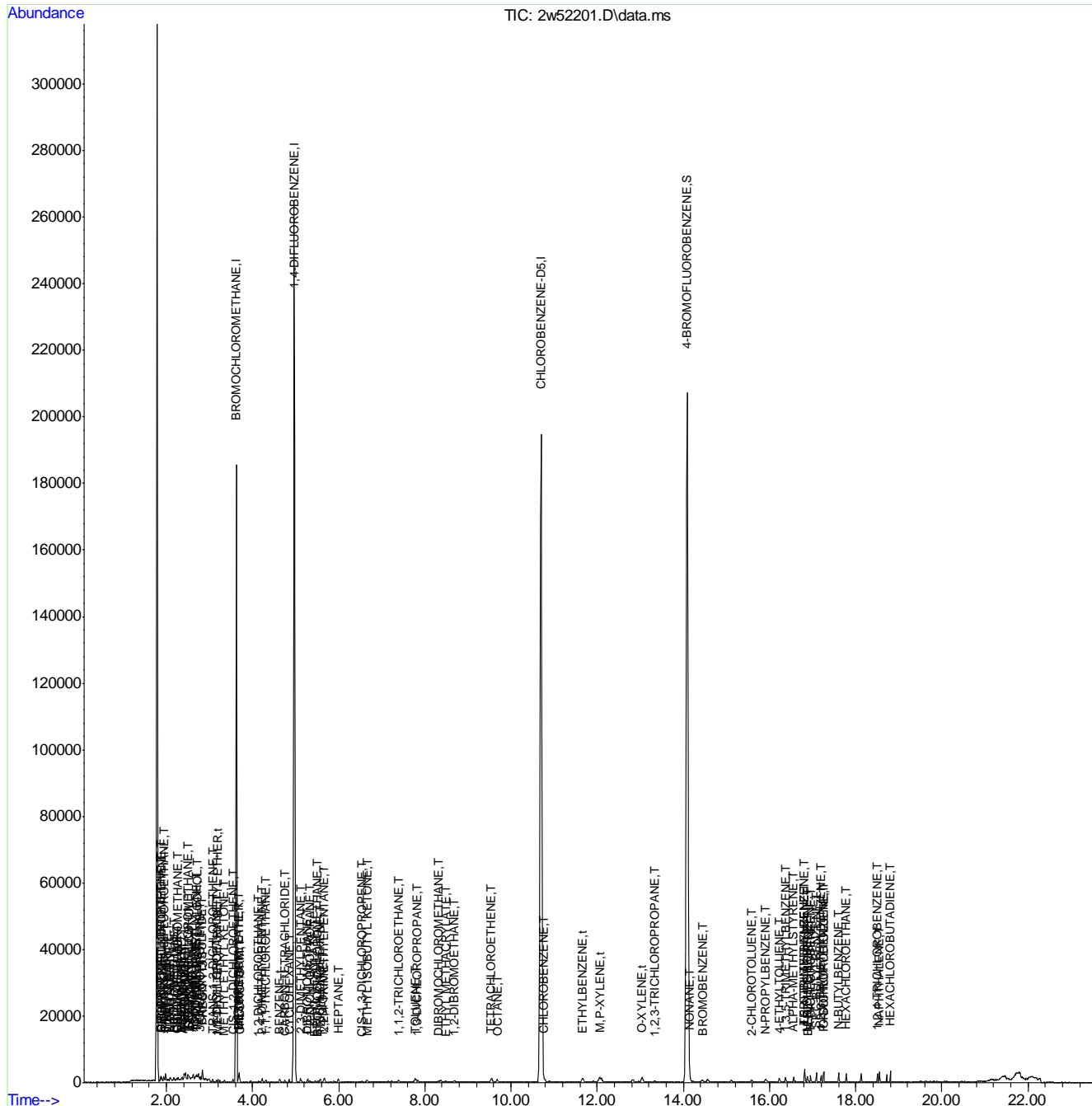
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) 2,3-DIMETHYLPENTANE	5.116	71	142	0.03	PPBV #	16
55) TRICHLOROETHENE	5.563	95	378	0.04	PPBV	92
56) 1,2-DICHLOROPROPANE	5.325	63	264	0.03	PPBV #	42
57) DIBROMOMETHANE	5.277	174	440	0.04	PPBV	85
58) ETHYL ACRYLATE	5.448	55	508	0.04	PPBV #	72
59) BROMODICHLOROMETHANE	5.512	83	435	0.04	PPBV #	75
60) 2,2,4-TRIMETHYLPENTANE	5.663	57	1334	0.04	PPBV #	82
61) 1,4-DIOXANE	5.634	88	183	0.03	PPBV #	36
62) HEPTANE	5.991	43	423	0.04	PPBV	91
64) METHYL ISOBUTYL KETONE	6.657	58	209	0.03	PPBV #	70
65) CIS-1,3-DICHLOROPROPENE	6.538	75	298	0.03	PPBV #	43
66) TOLUENE	7.779	91	1547	0.05	PPBV	92
67) 1,3-DICHLOROPROPANE	7.827	76	456	0.04	PPBV #	43
69) 1,1,2-TRICHLOROETHANE	7.396	83	252	0.03	PPBV #	69
71) ETHYL METHACRYLATE	8.492	69	276	0.03	PPBV #	41
72) TETRACHLOROETHENE	9.541	164	381	0.03	PPBV #	86
73) DIBROMOCHLOROMETHANE	8.322	129	379	0.03	PPBV #	78
74) 1,2-DIBROMOETHANE	8.669	107	421	0.03	PPBV #	96
75) OCTANE	9.682	43	571	0.04	PPBV #	60
78) CHLOROENZENE	10.769	112	883	0.04	PPBV #	47
79) ETHYLBENZENE	11.653	91	2079	0.06	PPBV	87
80) M,P-XYLENE	12.061	91	3159	0.11	PPBV #	47
81) O-XYLENE	13.032	91	1577	0.06	PPBV	96
83) NONANE	14.148	43	422	0.03	PPBV #	18
86) 1,2,3-TRICHLOROPROPANE	13.332	75	433	0.03	PPBV #	99
89) BROMOBENZENE	14.438	77	595	0.04	PPBV #	75
90) 2-CHLOROTOLUENE	15.576	126	292	0.03	PPBV #	43
91) N-PROPYLBENZENE	15.913	120	340	0.03	PPBV #	63
92) 4-ETHYLTOLUENE	16.225	105	1312	0.04	PPBV #	96
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	1076	0.04	PPBV #	95
94) ALPHA-METHYLSTYRENE	16.556	118	566	0.04	PPBV	95
95) TERT-BUTYLBENZENE	16.807	134	277	0.04	PPBV	74
96) 1,2,4-TRIMETHYLBENZENE	16.814	105	1018	0.04	PPBV	90
97) BENZYL CHLORIDE	16.897	91	394	0.03	PPBV #	59
98) M-DICHLOROENZENE	16.875	146	832	0.04	PPBV	95
99) P-DICHLOROENZENE	16.955	146	844	0.04	PPBV	94
100) O-DICHLOROENZENE	17.248	146	801	0.04	PPBV	94
101) SEC-BUTYLBENZENE	17.087	134	352	0.04	PPBV	88
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	1032	0.04	PPBV #	96
103) P-ISOPROPYLTOLUENE	17.264	134	355	0.04	PPBV	94
104) N-BUTYLBENZENE	17.598	134	340	0.04	PPBV	97
105) HEXACHLOROETHANE	17.778	117	193	0.03	PPBV #	80
106) HEXACHLOROBUTADIENE	18.807	225	496	0.05	PPBV #	80
107) 1,2,4-TRICHLOROENZENE	18.505	180	697	0.05	PPBV	92
108) NAPHTHALENE	18.550	128	1762	0.05	PPBV	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52201.D
 Acq On : 5 Mar 2021 3:27 pm
 Operator : danat
 Sample : ic2318-0.04
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:58:29 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:38:51 2021
 Response via : Initial Calibration



7.7.5
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52202.D
 Acq On : 5 Mar 2021 3:58 pm
 Operator : danat
 Sample : ic2318-5
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:23:08 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:58:57 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.621	128	47784	10.00	PPBV	0.00	
52) 1,4-DIFLUOROBENZENE	4.969	114	242616	10.00	PPBV	0.00	
76) CHLOROBENZENE-D5	10.695	117	215879	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.084	95	134555	10.09	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.837	65	20921	5.09	PPBV		100
4) CHLORODIFLUOROMETHANE	1.853	67	6628	5.09	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.869	116	54079	5.10	PPBV		99
6) DICHLORODIFLUOROMETHANE	1.888	85	76669	4.86	PPBV		99
7) PROPYLENE	1.866	41	21093	4.58	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.940	65	51591	4.94	PPBV		99
9) FREON 114	1.985	85	91272	5.05	PPBV		99
10) CHLOROMETHANE	1.946	52	8876	5.63	PPBV		95
11) VINYL CHLORIDE	2.023	62	35179	5.07	PPBV		100
12) 1,3-BUTADIENE	2.075	54	24559	5.15	PPBV		99
13) N-BUTANE	2.094	43	39686	4.59	PPBV #		99
14) BROMOMETHANE	2.171	94	37222	5.14	PPBV		99
15) CHLOROETHANE	2.232	64	20009	5.41	PPBV		100
16) DICHLOROFLUOROMETHANE	2.264	67	70398	5.01	PPBV		99
17) ACETONITRILE	2.351	41	22418	3.83	PPBV		98
18) ACROLEIN	2.396	56	14682	5.11	PPBV		97
19) FREON 123	2.412	83	84383	4.97	PPBV		99
20) FREON 123A	2.435	117	47187	5.17	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.502	101	72536	4.98	PPBV		99
22) ISOPROPYL ALCOHOL	2.515	45	46175	3.51	PPBV		97
23) ACETONE	2.441	58	15000	3.52	PPBV		97
24) PENTANE	2.615	42	25586	4.57	PPBV		99
25) IODOMETHANE	2.673	142	101944	5.06	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.702	96	36715	4.85	PPBV		97
27) CARBON DISULFIDE	2.837	76	80718	5.39	PPBV #		95
28) ETHANOL	2.268	45	10691	2.93	PPBV		97
29) BROMOETHENE	2.361	106	36664	5.18	PPBV		100
30) ACRYLONITRILE	2.586	52	19689	4.84	PPBV		98
31) METHYLENE CHLORIDE	2.737	84	32841	4.16	PPBV		99
32) 3-CHLOROPROPENE	2.779	76	17526	5.22	PPBV		99
33) FREON 113	2.834	151	62495	5.03	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.078	96	36902	5.19	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.708	59	59403	5.21	PPBV		100
36) METHYL TERTIARY BUTYL ...	3.190	73	83352	5.04	PPBV		100
37) TETRAHYDROFURAN	3.920	72	17579	5.35	PPBV		96
38) HEXANE	3.679	57	51632	4.83	PPBV		100
39) VINYL ACETATE	3.232	86	8517	5.60	PPBV		91
40) 1,1-DICHLOROETHANE	3.158	63	55625	5.27	PPBV		99
41) METHYL ETHYL KETONE	3.332	72	17252	4.69	PPBV		99
42) CIS-1,2-DICHLOROETHENE	3.541	96	40126	5.00	PPBV		98
43) DIISOPROPYL ETHER	3.679	59	15040	5.06	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52202.D
 Acq On : 5 Mar 2021 3:58 pm
 Operator : danat
 Sample : ic2318-5
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:23:08 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:58:57 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.682	61	9958	5.60	PPBV	93
45) METHYL ACRYLATE	3.670	55	55788	4.88	PPBV #	76
46) CHLOROFORM	3.698	83	63670	4.98	PPBV #	84
47) 2,4-DIMETHYLPENTANE	4.219	57	62125	5.04	PPBV	99
48) 1,1,1-TRICHLOROETHANE	4.303	97	53942	5.15	PPBV	99
49) CARBON TETRACHLORIDE	4.747	117	49850	5.41	PPBV	100
50) 1,2-DICHLOROETHANE	4.133	62	34907	5.31	PPBV	99
51) BENZENE	4.631	78	118164	4.79	PPBV	99
53) CYCLOHEXANE	4.850	84	52906	5.26	PPBV	99
54) 2,3-DIMETHYLPENTANE	5.116	71	26371	5.45	PPBV	99
55) TRICHLOROETHENE	5.567	95	48688	4.98	PPBV	99
56) 1,2-DICHLOROPROPANE	5.322	63	40276	5.31	PPBV	99
57) DIBROMOMETHANE	5.284	174	51580	4.88	PPBV	100
58) ETHYL ACRYLATE	5.441	55	68209	5.22	PPBV	99
59) BROMODICHLOROMETHANE	5.509	83	64195	5.50	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.663	57	165343	4.99	PPBV	100
61) 1,4-DIOXANE	5.573	88	26656	4.74	PPBV	99
62) HEPTANE	5.991	43	51203	5.04	PPBV	99
63) METHYL METHACRYLATE	5.882	69	40372	5.42	PPBV	99
64) METHYL ISOBUTYL KETONE	6.634	58	31862	5.45	PPBV	99
65) CIS-1,3-DICHLOROPROPENE	6.538	75	55822	5.82	PPBV	100
66) TOLUENE	7.779	91	144287	4.57	PPBV	99
67) 1,3-DICHLOROPROPANE	7.833	76	64077	5.32	PPBV #	100
68) TRANS-1,3-DICHLOROPROPENE	7.232	75	42852	5.46	PPBV	99
69) 1,1,2-TRICHLOROETHANE	7.396	83	40333	5.37	PPBV	99
70) 2-HEXANONE	8.338	58	39837	4.40	PPBV	100
71) ETHYL METHACRYLATE	8.486	69	61946	6.15	PPBV	100
72) TETRACHLOROETHENE	9.547	164	57058	5.21	PPBV	99
73) DIBROMOCHLOROMETHANE	8.329	129	65148	5.94	PPBV	100
74) 1,2-DIBROMOETHANE	8.676	107	69154	5.63	PPBV	99
75) OCTANE	9.689	43	69501	4.94	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	10.779	131	49073	5.68	PPBV	99
78) CHLOROBENZENE	10.769	112	115079	5.20	PPBV	100
79) ETHYLBENZENE	11.663	91	173777	4.35	PPBV	100
80) M,P-XYLENE	12.100	91	255765	8.65	PPBV	99
81) O-XYLENE	13.042	91	129692	4.37	PPBV	98
82) STYRENE	12.824	104	108287	5.09	PPBV	99
83) NONANE	14.155	43	69005	5.25	PPBV	99
84) BROMOFORM	11.907	173	61709	6.27	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.042	83	93084	5.12	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	13.328	75	65908	5.28	PPBV #	100
88) ISOPROPYLBENZENE	14.563	120	53733	5.41	PPBV	100
89) BROMOBENZENE	14.434	77	84022	5.22	PPBV	98
90) 2-CHLOROTOLUENE	15.579	126	48263	5.59	PPBV	100
91) N-PROPYLBENZENE	15.917	120	54123	5.49	PPBV	99
92) 4-ETHYLTOLUENE	16.229	105	177187	5.29	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	143250	5.25	PPBV	99
94) ALPHA-METHYLSTYRENE	16.560	118	80257	5.44	PPBV	100
95) TERT-BUTYLBENZENE	16.810	134	39975	5.35	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	141238	5.34	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52202.D
 Acq On : 5 Mar 2021 3:58 pm
 Operator : danat
 Sample : ic2318-5
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:23:08 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 15:58:57 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.897	91	67822	5.85	PPBV	100
98) M-DICHLOROBENZENE	16.875	146	101794	5.00	PPBV	99
99) P-DICHLOROBENZENE	16.955	146	101477	5.00	PPBV	99
100) O-DICHLOROBENZENE	17.248	146	92951	4.96	PPBV	99
101) SEC-BUTYLBENZENE	17.084	134	47309	5.28	PPBV	97
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	136364	5.25	PPBV	99
103) P-ISOPROPYLTOLUENE	17.261	134	49740	5.44	PPBV	99
104) N-BUTYLBENZENE	17.601	134	45643	5.43	PPBV	99
105) HEXACHLOROETHANE	17.778	117	39912	6.46	PPBV	99
106) HEXACHLOROBUTADIENE	18.807	225	51866	4.69	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.502	180	58845	4.03	PPBV	99
108) NAPHTHALENE	18.550	128	118074	3.20	PPBV	99

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

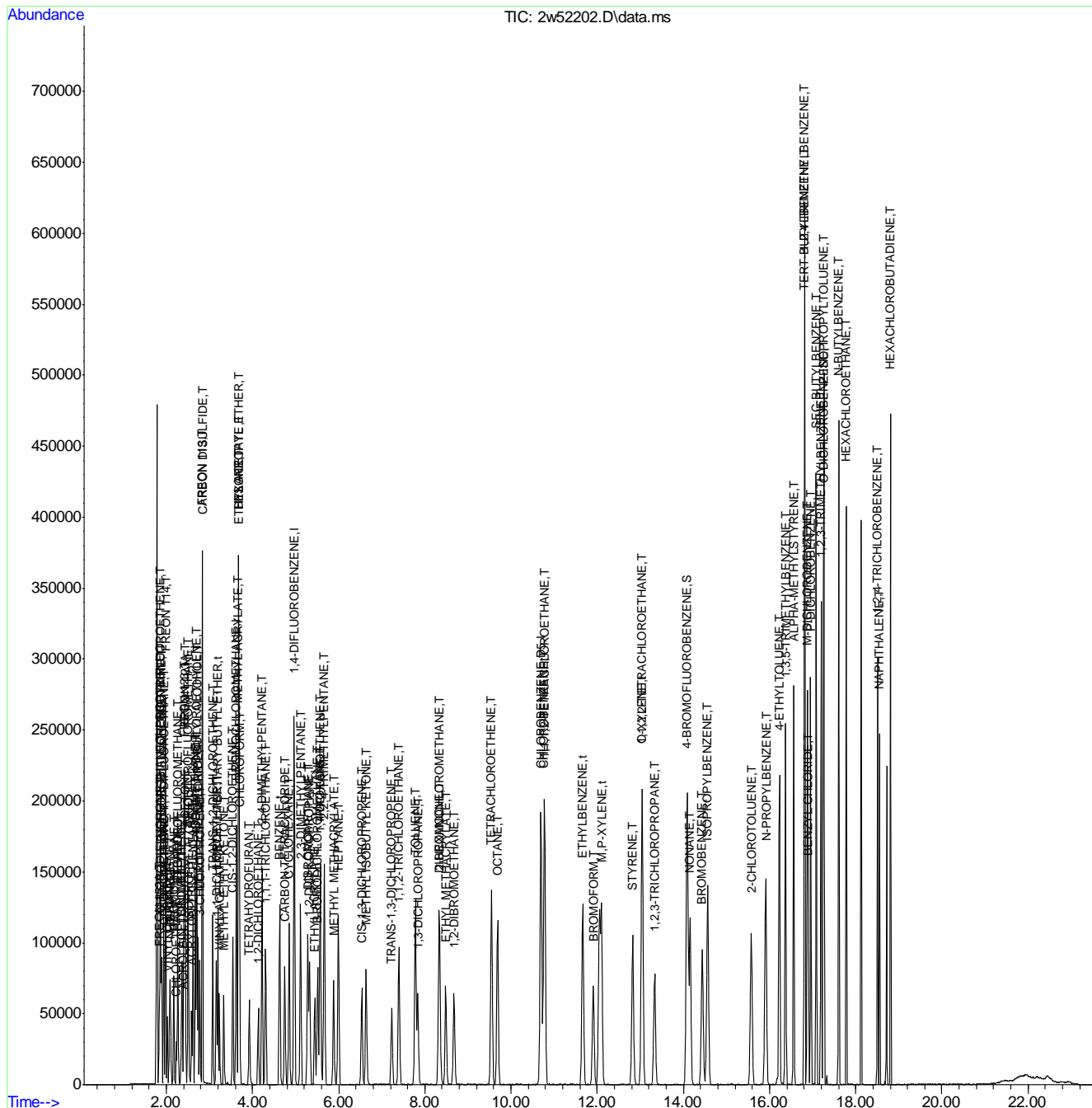
7.7.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w52202.D
Acq On : 5 Mar 2021 3:58 pm
Operator : danat
Sample : ic2318-5
Misc : MS49231,V2W2318,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:23:08 2021
Quant Method : C:\msdchem\1\METHODS\M2W2318.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Mar 05 15:58:57 2021
Response via : Initial Calibration



7.7.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52203.D
 Acq On : 5 Mar 2021 4:31 pm
 Operator : danat
 Sample : ic2318-20
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:54:58 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:24:20 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.624	128	49186	10.00	PPBV	0.00	
52) 1,4-DIFLUOROBENZENE	4.968	114	252266	10.00	PPBV	0.00	
76) CHLOROBENZENE-D5	10.698	117	222331	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	137828	10.02	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.840	65	83502	19.65	PPBV		100
4) CHLORODIFLUOROMETHANE	1.859	67	26103	19.39	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.872	116	214848	19.63	PPBV		99
6) DICHLORODIFLUOROMETHANE	1.891	85	296957	18.39	PPBV		99
7) PROPYLENE	1.869	41	83553	17.88	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.943	65	207684	19.37	PPBV		99
9) FREON 114	1.988	85	371160	19.92	PPBV		99
10) CHLOROMETHANE	1.949	52	34700	20.86	PPBV		97
11) VINYL CHLORIDE	2.030	62	141033	19.71	PPBV		99
12) 1,3-BUTADIENE	2.078	54	98852	20.04	PPBV		100
13) N-BUTANE	2.097	43	158190	18.01	PPBV #		99
14) BROMOMETHANE	2.174	94	148460	19.82	PPBV		99
15) CHLOROETHANE	2.239	64	80111	20.75	PPBV		99
16) DICHLOROFLUOROMETHANE	2.268	67	277998	19.23	PPBV		100
17) ACETONITRILE	2.354	41	89033	15.38	PPBV		100
18) ACROLEIN	2.399	56	59419	20.01	PPBV		100
19) FREON 123	2.419	83	337397	19.31	PPBV		100
20) FREON 123A	2.438	117	190312	20.15	PPBV		96
21) TRICHLOROFLUOROMETHANE	2.505	101	292135	19.49	PPBV		100
22) ISOPROPYL ALCOHOL	2.518	45	178823	13.89	PPBV		99
23) ACETONE	2.444	58	60227	14.59	PPBV		100
24) PENTANE	2.618	42	103130	18.16	PPBV		100
25) IODOMETHANE	2.676	142	414941	19.97	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.702	96	148060	19.09	PPBV		99
27) CARBON DISULFIDE	2.837	76	367393	23.51	PPBV #		96
28) ETHANOL	2.274	45	42799	12.41	PPBV		99
29) BROMOETHENE	2.364	106	147272	20.08	PPBV		99
30) ACRYLONITRILE	2.589	52	78732	18.90	PPBV		100
31) METHYLENE CHLORIDE	2.740	84	132397	16.86	PPBV		98
32) 3-CHLOROPROPENE	2.782	76	71238	20.46	PPBV		98
33) FREON 113	2.837	151	256565	20.05	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.078	96	150997	20.50	PPBV		99
35) TERTIARY BUTYL ALCOHOL	2.711	59	224015	18.96	PPBV		99
36) METHYL TERTIARY BUTYL ...	3.190	73	348771	20.45	PPBV		100
37) TETRAHYDROFURAN	3.917	72	72917	21.27	PPBV		98
38) HEXANE	3.679	57	209408	19.14	PPBV		99
39) VINYL ACETATE	3.232	86	40142	25.05	PPBV		98
40) 1,1-DICHLOROETHANE	3.158	63	227221	20.73	PPBV		100
41) METHYL ETHYL KETONE	3.332	72	71336	19.03	PPBV		99
42) CIS-1,2-DICHLOROETHENE	3.544	96	162783	19.72	PPBV		100
43) DIISOPROPYL ETHER	3.685	59	62257	20.32	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52203.D
 Acq On : 5 Mar 2021 4:31 pm
 Operator : danat
 Sample : ic2318-20
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:54:58 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:24:20 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.685	61	42765	22.82	PPBV	98
45) METHYL ACRYLATE	3.673	55	236728	20.20	PPBV	98
46) CHLOROFORM	3.705	83	262592	19.95	PPBV	99
47) 2,4-DIMETHYLPENTANE	4.222	57	254915	20.07	PPBV	99
48) 1,1,1-TRICHLOROETHANE	4.306	97	233574	21.56	PPBV	99
49) CARBON TETRACHLORIDE	4.750	117	235737	24.53	PPBV	100
50) 1,2-DICHLOROETHANE	4.136	62	142525	20.86	PPBV	99
51) BENZENE	4.631	78	480200	19.04	PPBV	100
53) CYCLOHEXANE	4.849	84	215387	20.43	PPBV	100
54) 2,3-DIMETHYLPENTANE	5.116	71	108454	21.24	PPBV	99
55) TRICHLOROETHENE	5.570	95	200249	19.73	PPBV	100
56) 1,2-DICHLOROPROPANE	5.328	63	164629	20.68	PPBV	99
57) DIBROMOMETHANE	5.287	174	213630	19.51	PPBV	99
58) ETHYL ACRYLATE	5.444	55	296644	21.68	PPBV	99
59) BROMODICHLOROMETHANE	5.515	83	281932	22.85	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.669	57	677347	19.67	PPBV	100
61) 1,4-DIOXANE	5.573	88	107075	18.48	PPBV	99
62) HEPTANE	5.997	43	209624	19.82	PPBV	99
63) METHYL METHACRYLATE	5.882	69	174265	22.12	PPBV	99
64) METHYL ISOBUTYL KETONE	6.634	58	131942	21.38	PPBV	99
65) CIS-1,3-DICHLOROPROPENE	6.537	75	249160	24.31	PPBV	99
66) TOLUENE	7.785	91	585304	18.10	PPBV	100
67) 1,3-DICHLOROPROPANE	7.836	76	262034	20.70	PPBV #	100
68) TRANS-1,3-DICHLOROPROPENE	7.235	75	202242	24.35	PPBV	100
69) 1,1,2-TRICHLOROETHANE	7.399	83	165159	20.89	PPBV	100
70) 2-HEXANONE	8.348	58	168514	18.34	PPBV	99
71) ETHYL METHACRYLATE	8.486	69	272547	25.07	PPBV	99
72) TETRACHLOROETHENE	9.550	164	231012	20.16	PPBV	100
73) DIBROMOCHLOROMETHANE	8.328	129	298875	25.42	PPBV	100
74) 1,2-DIBROMOETHANE	8.682	107	289706	22.22	PPBV	99
75) OCTANE	9.692	43	282679	19.35	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	10.785	131	221697	24.25	PPBV	99
78) CHLOROBENZENE	10.775	112	465927	20.30	PPBV	100
79) ETHYLBENZENE	11.666	91	702981	17.45	PPBV	100
80) M,P-XYLENE	12.100	91	1035213	34.79	PPBV	100
81) O-XYLENE	13.048	91	523537	17.48	PPBV	99
82) STYRENE	12.830	104	451492	20.54	PPBV	99
83) NONANE	14.161	43	282547	20.71	PPBV	99
84) BROMOFORM	11.917	173	300532	28.21	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.055	83	383655	20.39	PPBV	100
86) 1,2,3-TRICHLOROPROPANE	13.338	75	270710	20.86	PPBV #	100
88) ISOPROPYLBENZENE	14.573	120	217733	20.94	PPBV	100
89) BROMOBENZENE	14.444	77	339368	20.33	PPBV	98
90) 2-CHLOROTOLUENE	15.579	126	196612	21.67	PPBV	100
91) N-PROPYLBENZENE	15.916	120	218945	21.21	PPBV	99
92) 4-ETHYLTOLUENE	16.232	105	724117	20.79	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	582515	20.57	PPBV	100
94) ALPHA-METHYLSTYRENE	16.563	118	329358	21.38	PPBV	99
95) TERT-BUTYLBENZENE	16.814	134	165526	21.26	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	588941	21.39	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52203.D
 Acq On : 5 Mar 2021 4:31 pm
 Operator : danat
 Sample : ic2318-20
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:54:58 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:24:20 2021
 Response via : Initial Calibration

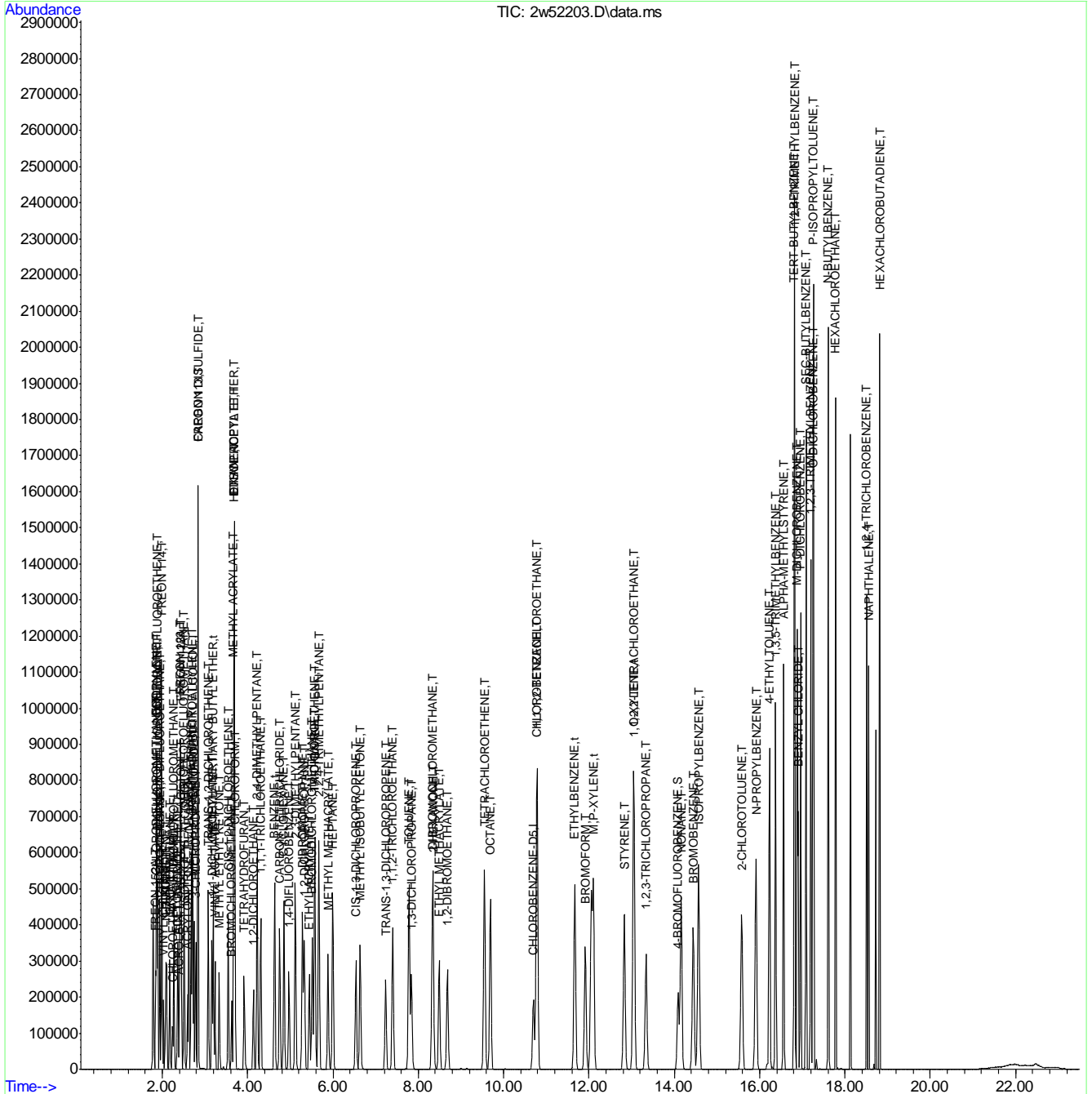
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.904	91	390660	31.82	PPBV	99
98) M-DICHLOROBENZENE	16.878	146	420857	20.06	PPBV	100
99) P-DICHLOROBENZENE	16.958	146	420545	20.11	PPBV	99
100) O-DICHLOROBENZENE	17.248	146	393121	20.38	PPBV	100
101) SEC-BUTYLBENZENE	17.087	134	201253	21.59	PPBV	99
102) 1,2,3-TRIMETHYLBENZENE	17.196	105	572263	21.23	PPBV	99
103) P-ISOPROPYLTOLUENE	17.260	134	214717	22.47	PPBV	98
104) N-BUTYLBENZENE	17.605	134	193905	22.07	PPBV	99
105) HEXACHLOROETHANE	17.781	117	214834	32.21	PPBV	99
106) HEXACHLOROBUTADIENE	18.813	225	224487	19.92	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	254033	17.44	PPBV	99
108) NAPHTHALENE	18.556	128	508653	14.24	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52203.D
 Acq On : 5 Mar 2021 4:31 pm
 Operator : danat
 Sample : ic2318-20
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:54:58 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:24:20 2021
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52204.D
 Acq On : 5 Mar 2021 5:05 pm
 Operator : danat
 Sample : ic2318-40
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 17:30:12 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:55:57 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.627	128	49505	10.00	PPBV	0.00	
52) 1,4-DIFLUOROBENZENE	4.971	114	252255	10.00	PPBV	0.00	
76) CHLOROBENZENE-D5	10.695	117	225970	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	139061	9.94	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.843	65	171563	40.24	PPBV		100
4) CHLORODIFLUOROMETHANE	1.859	67	53605	39.81	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.872	116	443112	40.32	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.894	85	550242	34.25	PPBV		99
7) PROPYLENE	1.869	41	171337	36.99	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.943	65	428119	39.85	PPBV		100
9) FREON 114	1.988	85	765245	40.83	PPBV		99
10) CHLOROMETHANE	1.949	52	71669	42.50	PPBV		97
11) VINYL CHLORIDE	2.030	62	292960	40.76	PPBV		99
12) 1,3-BUTADIENE	2.081	54	206266	41.53	PPBV		99
13) N-BUTANE	2.100	43	330366	37.91	PPBV #		99
14) BROMOMETHANE	2.177	94	307607	40.85	PPBV		99
15) CHLOROETHANE	2.238	64	168257	43.06	PPBV		100
16) DICHLOROFLUOROMETHANE	2.271	67	581238	40.17	PPBV		100
17) ACETONITRILE	2.354	41	185413	32.91	PPBV		99
18) ACROLEIN	2.402	56	124980	41.81	PPBV		99
19) FREON 123	2.419	83	698390	39.91	PPBV		99
20) FREON 123A	2.438	117	392645	41.25	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.505	101	600483	39.94	PPBV		99
22) ISOPROPYL ALCOHOL	2.521	45	361537	29.17	PPBV		100
23) ACETONE	2.444	58	125869	31.73	PPBV		99
24) PENTANE	2.621	42	212606	37.69	PPBV		99
25) IODOMETHANE	2.679	142	855838	40.93	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.705	96	305645	39.41	PPBV		98
27) CARBON DISULFIDE	2.840	76	772307	47.91	PPBV #		94
28) ETHANOL	2.274	45	89216	27.44	PPBV		100
29) BROMOETHENE	2.367	106	306080	41.44	PPBV		99
30) ACRYLONITRILE	2.592	52	165203	39.71	PPBV		99
31) METHYLENE CHLORIDE	2.740	84	270293	35.11	PPBV		98
32) 3-CHLOROPROPENE	2.782	76	149290	42.46	PPBV		96
33) FREON 113	2.840	151	526632	40.87	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.081	96	305121	41.00	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.714	59	410677	34.80	PPBV		100
36) METHYL TERTIARY BUTYL ...	3.193	73	716269	41.60	PPBV		100
37) TETRAHYDROFURAN	3.920	72	146549	42.02	PPBV		97
38) HEXANE	3.682	57	422190	38.58	PPBV		100
39) VINYL ACETATE	3.235	86	84703	50.40	PPBV		98
40) 1,1-DICHLOROETHANE	3.161	63	462764	41.73	PPBV		100
41) METHYL ETHYL KETONE	3.335	72	145420	38.81	PPBV		99
42) CIS-1,2-DICHLOROETHENE	3.547	96	332801	40.13	PPBV		99
43) DIISOPROPYL ETHER	3.685	59	126848	41.04	PPBV		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52204.D
 Acq On : 5 Mar 2021 5:05 pm
 Operator : danat
 Sample : ic2318-40
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 17:30:12 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:55:57 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.692	61	87168	45.16	PPBV	93
45) METHYL ACRYLATE	3.676	55	487836	41.29	PPBV	98
46) CHLOROFORM	3.708	83	526460	39.76	PPBV	98
47) 2,4-DIMETHYLPENTANE	4.226	57	513612	40.15	PPBV	99
48) 1,1,1-TRICHLOROETHANE	4.309	97	481304	43.66	PPBV	99
49) CARBON TETRACHLORIDE	4.753	117	497531	49.82	PPBV	99
50) 1,2-DICHLOROETHANE	4.136	62	286630	41.42	PPBV	99
51) BENZENE	4.634	78	969833	38.48	PPBV	100
53) CYCLOHEXANE	4.856	84	437580	41.39	PPBV	99
54) 2,3-DIMETHYLPENTANE	5.119	71	219298	42.57	PPBV	100
55) TRICHLOROETHENE	5.576	95	402249	39.70	PPBV	99
56) 1,2-DICHLOROPROPANE	5.332	63	336674	42.08	PPBV	99
57) DIBROMOMETHANE	5.287	174	433158	39.70	PPBV	99
58) ETHYL ACRYLATE	5.447	55	613245	44.30	PPBV	100
59) BROMODICHLOROMETHANE	5.518	83	579108	45.99	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.672	57	1363551	39.69	PPBV	99
61) 1,4-DIOXANE	5.576	88	216807	37.83	PPBV	99
62) HEPTANE	5.997	43	419872	39.75	PPBV	98
63) METHYL METHACRYLATE	5.885	69	355968	44.40	PPBV	99
64) METHYL ISOBUTYL KETONE	6.643	58	270327	43.38	PPBV	100
65) CIS-1,3-DICHLOROPROPENE	6.541	75	511696	48.43	PPBV	99
66) TOLUENE	7.788	91	1181580	37.04	PPBV	100
67) 1,3-DICHLOROPROPANE	7.843	76	533648	41.96	PPBV #	100
68) TRANS-1,3-DICHLOROPROPENE	7.238	75	427577	49.68	PPBV	99
69) 1,1,2-TRICHLOROETHANE	7.405	83	333166	41.88	PPBV	100
70) 2-HEXANONE	8.354	58	343529	37.92	PPBV	99
71) ETHYL METHACRYLATE	8.495	69	570528	50.64	PPBV	99
72) TETRACHLOROETHENE	9.553	164	474309	41.35	PPBV	100
73) DIBROMOCHLOROMETHANE	8.335	129	632410	51.79	PPBV	100
74) 1,2-DIBROMOETHANE	8.688	107	592181	44.70	PPBV	99
75) OCTANE	9.695	43	582409	40.06	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	10.794	131	470647	48.91	PPBV	99
78) CHLOROBENZENE	10.782	112	959609	41.05	PPBV	100
79) ETHYLBENZENE	11.672	91	1439525	35.81	PPBV	100
80) M,P-XYLENE	12.106	91	2136147	71.98	PPBV	100
81) O-XYLENE	13.055	91	1077230	36.04	PPBV	100
82) STYRENE	12.833	104	921025	41.05	PPBV	100
83) NONANE	14.170	43	580027	41.61	PPBV	99
84) BROMOFORM	11.920	173	649049	56.11	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.064	83	793252	41.35	PPBV	100
86) 1,2,3-TRICHLOROPROPANE	13.347	75	558675	42.09	PPBV #	100
88) ISOPROPYLBENZENE	14.579	120	448435	42.11	PPBV	100
89) BROMOBENZENE	14.450	77	694791	40.85	PPBV	99
90) 2-CHLOROTOLUENE	15.585	126	397200	42.57	PPBV	99
91) N-PROPYLBENZENE	15.916	120	451107	42.63	PPBV	99
92) 4-ETHYLTOLUENE	16.235	105	1480524	41.59	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	16.379	105	1200336	41.53	PPBV	99
94) ALPHA-METHYLSTYRENE	16.566	118	683266	43.21	PPBV	99
95) TERT-BUTYLBENZENE	16.817	134	337903	42.32	PPBV	100
96) 1,2,4-TRIMETHYLBENZENE	16.826	105	1210467	42.83	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52204.D
 Acq On : 5 Mar 2021 5:05 pm
 Operator : danat
 Sample : ic2318-40
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 17:30:12 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:55:57 2021
 Response via : Initial Calibration

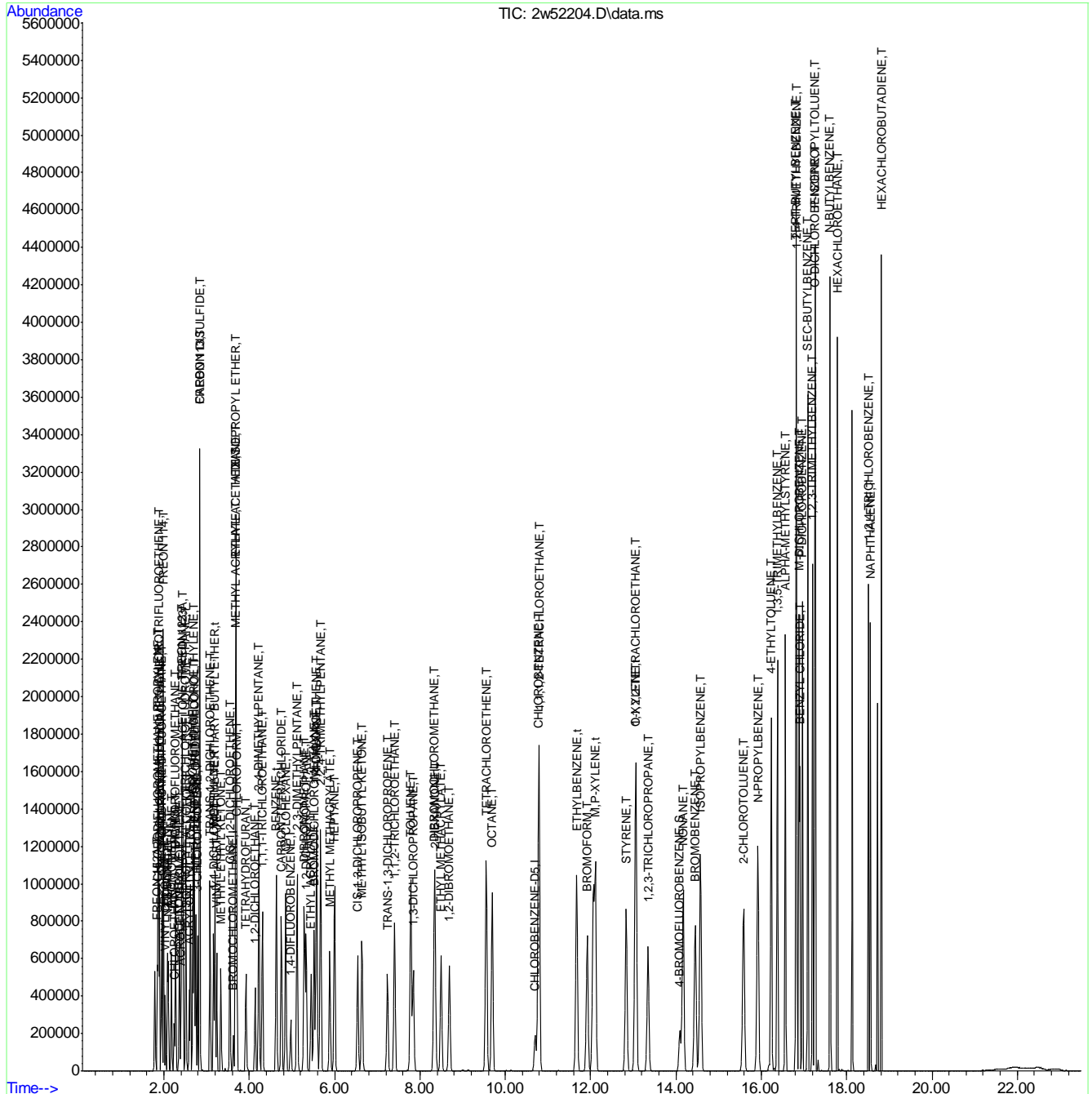
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.907	91	881676	65.15	PPBV	99
98) M-DICHLOROBENZENE	16.884	146	852411	39.96	PPBV	99
99) P-DICHLOROBENZENE	16.965	146	846503	39.80	PPBV	99
100) O-DICHLOROBENZENE	17.254	146	791392	40.26	PPBV	100
101) SEC-BUTYLBENZENE	17.090	134	406402	42.42	PPBV	100
102) 1,2,3-TRIMETHYLBENZENE	17.199	105	1150529	41.62	PPBV	100
103) P-ISOPROPYLTOLUENE	17.264	134	433847	43.90	PPBV	98
104) N-BUTYLBENZENE	17.608	134	394721	43.56	PPBV	97
105) HEXACHLOROETHANE	17.784	117	469712	63.73	PPBV	99
106) HEXACHLOROBUTADIENE	18.817	225	470977	41.15	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.511	180	525790	36.18	PPBV	99
108) NAPHTHALENE	18.559	128	1059992	30.45	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52204.D
 Acq On : 5 Mar 2021 5:05 pm
 Operator : danat
 Sample : ic2318-40
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 17:30:12 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 16:55:57 2021
 Response via : Initial Calibration



7.7.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52206.D
 Acq On : 5 Mar 2021 6:07 pm
 Operator : danat
 Sample : icv2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:32:41 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.624	128	50390	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.968	114	257628	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.698	117	229964	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.090	95	141676	9.96	PPBV	0.00
Target Compounds						
						Qvalue
3) FREON 152A	1.833	65	41664	9.59	PPBV	99
4) CHLORODIFLUOROMETHANE	1.853	67	13231	9.66	PPBV	98
5) CHLOROTRIFLUOROETHENE	1.866	116	109613	9.79	PPBV	99
6) DICHLORODIFLUOROMETHANE	1.885	85	150067	9.34	PPBV	100
7) PROPYLENE	1.862	41	40744	8.72	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROE...	1.936	65	106584	9.75	PPBV	99
9) FREON 114	1.981	85	178441	9.33	PPBV	99
10) CHLOROMETHANE	1.943	52	17075	9.86	PPBV	97
11) VINYL CHLORIDE	2.023	62	69275	9.45	PPBV	98
12) 1,3-BUTADIENE	2.071	54	48787	9.60	PPBV	100
13) N-BUTANE	2.091	43	77924	8.84	PPBV #	98
14) BROMOMETHANE	2.168	94	71799	9.34	PPBV	99
15) CHLOROETHANE	2.232	64	39832	9.92	PPBV	99
16) DICHLOROFLUOROMETHANE	2.264	67	132943	9.02	PPBV	99
17) ACETONITRILE	2.348	41	43258	7.72	PPBV	99
18) ACROLEIN	2.393	56	28324	9.26	PPBV	99
19) FREON 123	2.412	83	173417	9.74	PPBV	98
20) FREON 123A	2.431	117	104452	10.74	PPBV	97
21) TRICHLOROFLUOROMETHANE	2.502	101	138779	9.07	PPBV	100
22) ISOPROPYL ALCOHOL	2.515	45	91005	7.47	PPBV	99
23) ACETONE	2.438	58	31305	7.99	PPBV	98
24) PENTANE	2.615	42	52509	9.21	PPBV	98
25) IODOMETHANE	2.673	142	203219	9.52	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.702	96	74578	9.47	PPBV	98
27) CARBON DISULFIDE	2.837	76	190254	11.31	PPBV #	94
28) ETHANOL	2.264	45	20076	7.61	PPBV	99
29) BROMOETHENE	2.357	106	74403	9.85	PPBV	100
30) ACRYLONITRILE	2.586	52	39056	9.23	PPBV	98
31) METHYLENE CHLORIDE	2.737	84	65049	8.45	PPBV	99
32) 3-CHLOROPROPENE	2.779	76	35353	9.80	PPBV	98
33) FREON 113	2.833	151	124201	9.44	PPBV	99
34) TRANS-1,2-DICHLOROETHENE	3.078	96	74760	9.84	PPBV	99
35) TERTIARY BUTYL ALCOHOL	2.708	59	105881	8.96	PPBV	99
36) METHYL TERTIARY BUTYL ...	3.190	73	170875	9.70	PPBV	100
37) TETRAHYDROFURAN	3.920	72	32974	9.22	PPBV	98
38) HEXANE	3.679	57	104664	9.44	PPBV	99
39) VINYL ACETATE	3.232	86	19398	10.93	PPBV	96
40) 1,1-DICHLOROETHANE	3.158	63	110940	9.77	PPBV	99
41) METHYL ETHYL KETONE	3.332	72	35338	9.30	PPBV	96
42) CIS-1,2-DICHLOROETHENE	3.544	96	78813	9.33	PPBV	99
43) DIISOPROPYL ETHER	3.679	59	30471	9.65	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52206.D
 Acq On : 5 Mar 2021 6:07 pm
 Operator : danat
 Sample : icv2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:32:41 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.682	61	23021	11.51	PPBV	86
45) METHYL ACRYLATE	3.669	55	118167	9.79	PPBV	98
46) CHLOROFORM	3.701	83	126258	9.37	PPBV	98
47) 2,4-DIMETHYLPENTANE	4.219	57	122948	9.44	PPBV	100
48) 1,1,1-TRICHLOROETHANE	4.303	97	112749	9.93	PPBV	99
49) CARBON TETRACHLORIDE	4.750	117	111758	10.67	PPBV	100
50) 1,2-DICHLOROETHANE	4.129	62	68583	9.69	PPBV	99
51) BENZENE	4.631	78	233065	9.13	PPBV	100
53) CYCLOHEXANE	4.849	84	104993	9.68	PPBV	99
54) 2,3-DIMETHYLPENTANE	5.116	71	52174	9.84	PPBV	100
55) TRICHLOROETHENE	5.566	95	96891	9.37	PPBV	99
56) 1,2-DICHLOROPROPANE	5.325	63	80535	9.79	PPBV	100
57) DIBROMOMETHANE	5.280	174	103536	9.30	PPBV	99
58) ETHYL ACRYLATE	5.441	55	145708	10.17	PPBV	99
59) BROMODICHLOROMETHANE	5.512	83	133697	10.21	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.663	57	327968	9.36	PPBV	100
61) 1,4-DIOXANE	5.573	88	48733	8.38	PPBV	99
62) HEPTANE	5.991	43	100643	9.34	PPBV	98
63) METHYL METHACRYLATE	5.878	69	82505	9.92	PPBV	99
64) METHYL ISOBUTYL KETONE	6.631	58	63737	9.91	PPBV	99
65) CIS-1,3-DICHLOROPROPENE	6.537	75	126939	11.46	PPBV	99
66) TOLUENE	7.778	91	284780	8.82	PPBV	100
67) 1,3-DICHLOROPROPANE	7.836	76	128944	9.87	PPBV #	99
68) TRANS-1,3-DICHLOROPROPENE	7.232	75	98254	10.80	PPBV	99
69) 1,1,2-TRICHLOROETHANE	7.396	83	79932	9.78	PPBV	99
70) 2-HEXANONE	8.341	58	83323	9.07	PPBV	98
71) ETHYL METHACRYLATE	8.486	69	133603	11.24	PPBV	99
72) TETRACHLOROETHENE	9.544	164	113644	9.66	PPBV	99
73) DIBROMOCHLOROMETHANE	8.328	129	140607	10.87	PPBV	99
74) 1,2-DIBROMOETHANE	8.676	107	139698	10.18	PPBV	99
75) OCTANE	9.688	43	136974	9.22	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	10.782	131	105244	10.42	PPBV	99
78) CHLOROBENZENE	10.769	112	227805	9.54	PPBV	100
79) ETHYLBENZENE	11.666	91	347230	8.60	PPBV	100
80) M,P-XYLENE	12.097	91	508830	17.06	PPBV	99
81) O-XYLENE	13.039	91	256638	8.54	PPBV	99
82) STYRENE	12.827	104	218778	9.55	PPBV	100
83) NONANE	14.158	43	139271	9.77	PPBV	99
84) BROMOFORM	11.913	173	136417	10.96	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.048	83	188456	9.61	PPBV	100
86) 1,2,3-TRICHLOROPROPANE	13.335	75	134312	9.88	PPBV #	100
88) ISOPROPYLBENZENE	14.566	120	108937	9.98	PPBV	100
89) BROMOBENZENE	14.441	77	166327	9.58	PPBV	98
90) 2-CHLOROTOLUENE	15.572	126	97525	10.19	PPBV	100
91) N-PROPYLBENZENE	15.913	120	109078	10.05	PPBV	100
92) 4-ETHYLTOLUENE	16.228	105	368931	10.13	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	294236	9.96	PPBV	100
94) ALPHA-METHYLSTYRENE	16.559	118	160681	9.89	PPBV	100
95) TERT-BUTYLBENZENE	16.813	134	81966	10.02	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	294165	10.14	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52206.D
 Acq On : 5 Mar 2021 6:07 pm
 Operator : danat
 Sample : icv2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:32:41 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.900	91	174057	11.72	PPBV	100
98) M-DICHLOROBENZENE	16.878	146	208444	9.60	PPBV	99
99) P-DICHLOROBENZENE	16.958	146	208109	9.62	PPBV	100
100) O-DICHLOROBENZENE	17.248	146	191761	9.58	PPBV	100
101) SEC-BUTYLBENZENE	17.087	134	98502	10.03	PPBV	96
102) 1,2,3-TRIMETHYLBENZENE	17.196	105	279043	9.87	PPBV	99
103) P-ISOPROPYLTOLUENE	17.260	134	107039	10.51	PPBV	98
104) N-BUTYLBENZENE	17.601	134	97751	10.48	PPBV	99
105) HEXACHLOROETHANE	17.781	117	101757	12.63	PPBV	99
106) HEXACHLOROBUTADIENE	18.813	225	129228	11.05	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	140317	9.60	PPBV	100
108) NAPHTHALENE	18.556	128	292507	8.51	PPBV	100

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

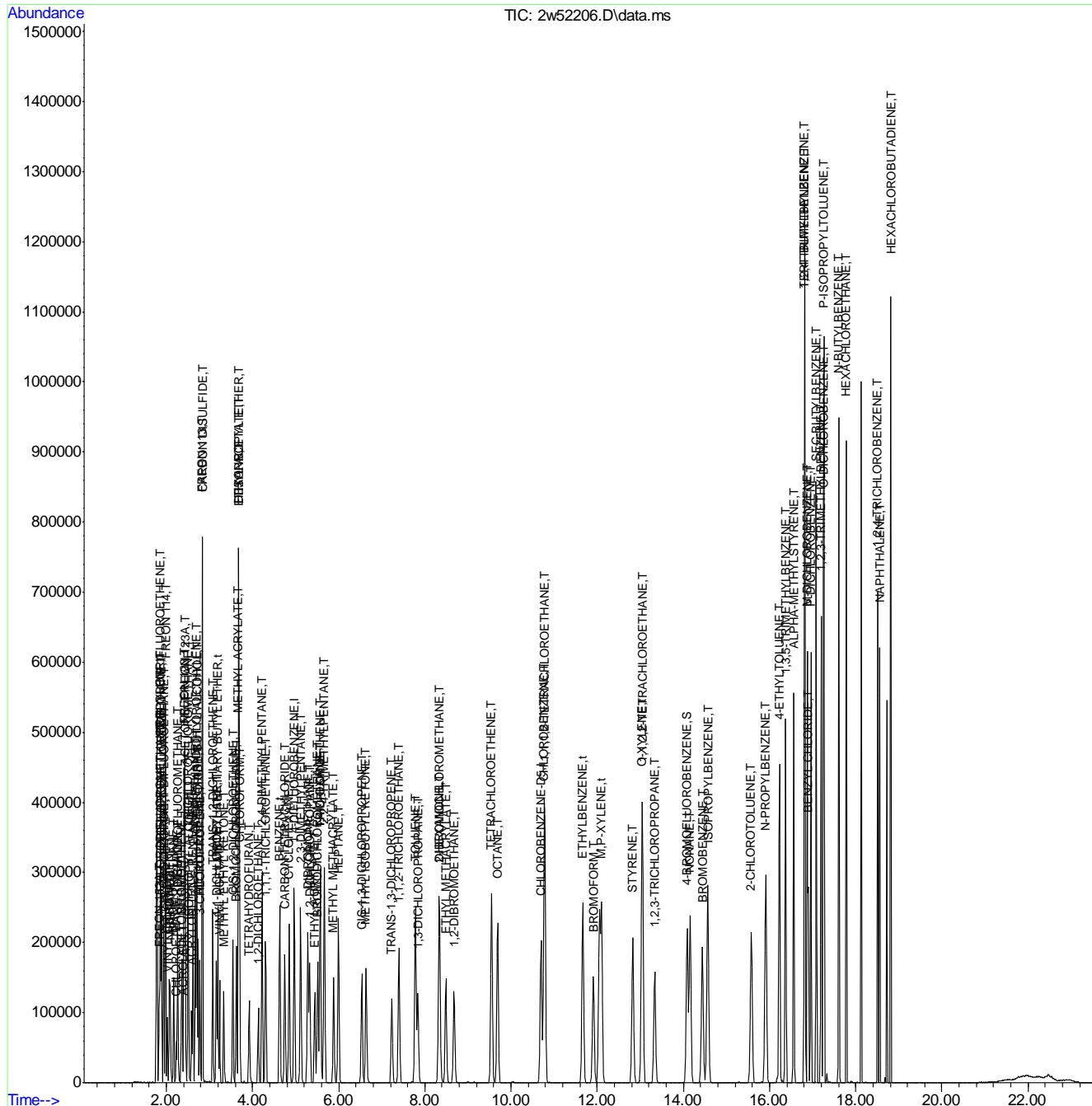
7.7.9

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w52206.D
 Acq On : 5 Mar 2021 6:07 pm
 Operator : danat
 Sample : icv2318-10
 Misc : MS49231,V2W2318,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:32:41 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53950.D
 Acq On : 9 Jun 2021 8:22 am
 Operator : thomash
 Sample : cc2318-10
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:01 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) BROMOCHLOROMETHANE	3.640	128	37137	10.00	PPBV	0.02	
52) 1,4-DIFLUOROBENZENE	4.981	114	188916	10.00	PPBV	0.01	
76) CHLOROBENZENE-D5	10.704	117	168781	10.00	PPBV	0.00	
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	103203	9.88	PPBV	0.00	
Target Compounds							
							Qvalue
3) FREON 152A	1.853	65	30764	9.61	PPBV		97
4) CHLORODIFLUOROMETHANE	1.865	67	9845	9.75	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.885	116	74519	9.03	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.904	85	138078	11.67	PPBV		98
7) PROPYLENE	1.882	41	35798	10.40	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.955	65	79811	9.91	PPBV		98
9) FREON 114	2.000	85	133916	9.50	PPBV		98
10) CHLOROMETHANE	1.962	52	13727	10.76	PPBV		99
11) VINYL CHLORIDE	2.042	62	52972	9.80	PPBV		100
12) 1,3-BUTADIENE	2.094	54	38576	10.30	PPBV		94
13) N-BUTANE	2.113	43	67374	10.37	PPBV	#	97
14) BROMOMETHANE	2.193	94	51505	9.09	PPBV		99
15) CHLOROETHANE	2.254	64	28826	9.74	PPBV		98
16) DICHLOROFLUOROMETHANE	2.287	67	101671	9.36	PPBV		99
17) ACETONITRILE	2.377	41	39453	9.55	PPBV		99
18) ACROLEIN	2.418	56	23343	10.35	PPBV		98
19) FREON 123	2.438	83	116062	8.84	PPBV		99
20) FREON 123A	2.457	117	65070	9.08	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.525	101	106728	9.47	PPBV		100
22) ISOPROPYL ALCOHOL	2.537	45	74224	8.26	PPBV		97
23) ACETONE	2.463	58	23292	8.07	PPBV		89
24) PENTANE	2.637	42	41481	9.87	PPBV		98
25) IODOMETHANE	2.695	142	140259	8.92	PPBV		96
26) 1,1-DICHLOROETHYLENE	2.721	96	50180	8.64	PPBV		97
27) CARBON DISULFIDE	2.856	76	133387	10.76	PPBV		97
28) ETHANOL	2.293	45	19183	9.87	PPBV		98
29) BROMOETHENE	2.386	106	50806	9.13	PPBV		99
30) ACRYLONITRILE	2.608	52	30167	9.67	PPBV		100
31) METHYLENE CHLORIDE	2.756	84	46817	8.25	PPBV		95
32) 3-CHLOROPROPENE	2.801	76	24316	9.15	PPBV		86
33) FREON 113	2.856	151	84304	8.70	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	3.097	96	47428	8.47	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.730	59	82286	9.45	PPBV	#	94
36) METHYL TERTIARY BUTYL ...	3.209	73	110045	8.48	PPBV		98
37) TETRAHYDROFURAN	3.936	72	23611	8.96	PPBV		87
38) HEXANE	3.695	57	73761	9.03	PPBV		94
39) VINYL ACETATE	3.251	86	13084	10.01	PPBV		65
40) 1,1-DICHLOROETHANE	3.177	63	76478	9.14	PPBV		99
41) METHYL ETHYL KETONE	3.348	72	23975	8.56	PPBV		82
42) CIS-1,2-DICHLOROETHENE	3.560	96	52933	8.51	PPBV		97
43) DIISOPROPYL ETHER	3.698	59	21420	9.21	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53950.D
 Acq On : 9 Jun 2021 8:22 am
 Operator : thomash
 Sample : cc2318-10
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:01 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) ETHYL ACETATE	3.701	61	14747	10.00	PPBV	76
45) METHYL ACRYLATE	3.688	55	86328	9.70	PPBV	98
46) CHLOROFORM	3.717	83	90571	9.12	PPBV	99
47) 2,4-DIMETHYLPENTANE	4.235	57	85925	8.95	PPBV	97
48) 1,1,1-TRICHLOROETHANE	4.319	97	83386	9.97	PPBV	99
49) CARBON TETRACHLORIDE	4.762	117	87106	11.28	PPBV	100
50) 1,2-DICHLOROETHANE	4.148	62	52178	10.01	PPBV	99
51) BENZENE	4.643	78	155822	8.28	PPBV	97
53) CYCLOHEXANE	4.865	84	67883	8.54	PPBV	94
54) 2,3-DIMETHYLPENTANE	5.129	71	35266	9.07	PPBV	93
55) TRICHLOROETHENE	5.579	95	64871	8.56	PPBV	99
56) 1,2-DICHLOROPROPANE	5.338	63	55372	9.18	PPBV	98
57) DIBROMOMETHANE	5.299	174	68122	8.34	PPBV	98
58) ETHYL ACRYLATE	5.454	55	105110	10.00	PPBV	99
59) BROMODICHLOROMETHANE	5.521	83	100213	10.43	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.676	57	233313	9.08	PPBV	100
61) 1,4-DIOXANE	5.582	88	34979	8.21	PPBV #	95
62) HEPTANE	6.007	43	78631	9.95	PPBV	91
63) METHYL METHACRYLATE	5.891	69	57439	9.42	PPBV	88
64) METHYL ISOBUTYL KETONE	6.647	58	45415	9.63	PPBV	87
65) CIS-1,3-DICHLOROPROPENE	6.547	75	81812	10.07	PPBV	95
66) TOLUENE	7.788	91	188900	7.98	PPBV	100
67) 1,3-DICHLOROPROPANE	7.846	76	88441	9.23	PPBV #	100
68) TRANS-1,3-DICHLOROPROPENE	7.245	75	68343	10.25	PPBV	94
69) 1,1,2-TRICHLOROETHANE	7.409	83	55608	9.28	PPBV	98
70) 2-HEXANONE	8.354	58	60036	8.92	PPBV	90
71) ETHYL METHACRYLATE	8.495	69	90516	10.38	PPBV	93
72) TETRACHLOROETHENE	9.553	164	74382	8.62	PPBV	99
73) DIBROMOCHLOROMETHANE	8.335	129	104740	11.05	PPBV	99
74) 1,2-DIBROMOETHANE	8.685	107	95416	9.48	PPBV	99
75) OCTANE	9.695	43	109045	10.01	PPBV	89
77) 1,1,1,2-TETRACHLOROETHANE	10.788	131	75991	10.25	PPBV	96
78) CHLOROBENZENE	10.781	112	149648	8.54	PPBV	97
79) ETHYLBENZENE	11.669	91	231159	7.80	PPBV	100
80) M,P-XYLENE	12.103	91	346597	15.83	PPBV	98
81) O-XYLENE	13.045	91	177739	8.06	PPBV	99
82) STYRENE	12.830	104	147041	8.74	PPBV	98
83) NONANE	14.158	43	112751	10.78	PPBV	89
84) BROMOFORM	11.916	173	109700	12.01	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	13.051	83	137148	9.53	PPBV	99
86) 1,2,3-TRICHLOROPROPANE	13.338	75	95779	9.60	PPBV #	100
88) ISOPROPYLBENZENE	14.566	120	71848	8.97	PPBV	94
89) BROMOBENZENE	14.440	77	118002	9.26	PPBV	98
90) 2-CHLOROTOLUENE	15.579	126	65473	9.32	PPBV	100
91) N-PROPYLBENZENE	15.916	120	73157	9.18	PPBV	100
92) 4-ETHYLTOLUENE	16.228	105	248964	9.32	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	203753	9.39	PPBV	98
94) ALPHA-METHYLSTYRENE	16.559	118	114790	9.62	PPBV	99
95) TERT-BUTYLBENZENE	16.813	134	55556	9.25	PPBV	97
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	209764	9.85	PPBV	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53950.D
 Acq On : 9 Jun 2021 8:22 am
 Operator : thomash
 Sample : cc2318-10
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:01 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration

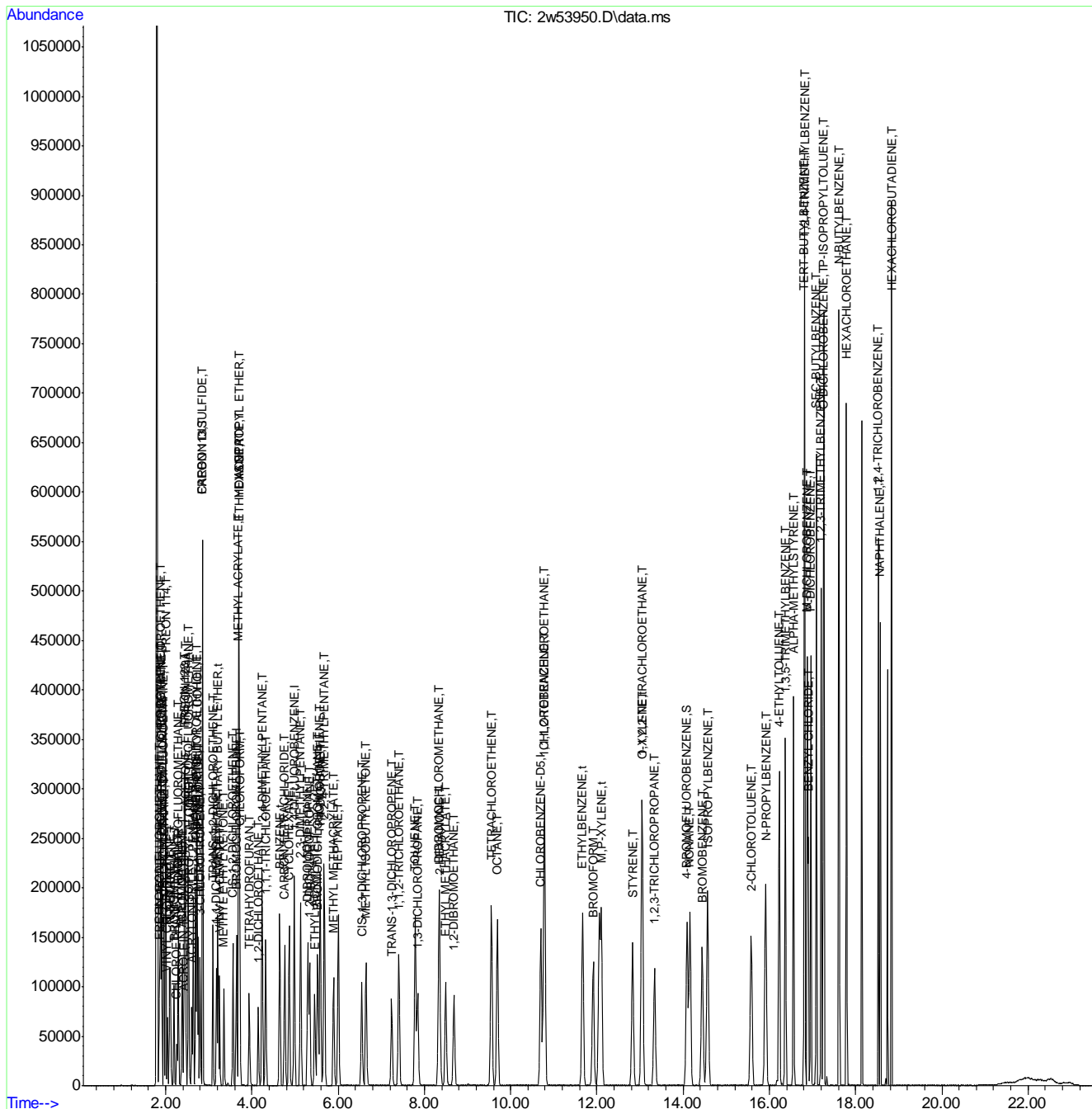
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.903	91	134987	12.38	PPBV	100
98) M-DICHLOROBENZENE	16.878	146	149294	9.37	PPBV	99
99) P-DICHLOROBENZENE	16.961	146	148118	9.33	PPBV	99
100) O-DICHLOROBENZENE	17.254	146	141898	9.66	PPBV	99
101) SEC-BUTYLBENZENE	17.090	134	68017	9.43	PPBV	92
102) 1,2,3-TRIMETHYLBENZENE	17.199	105	206389	9.95	PPBV	97
103) P-ISOPROPYLTOLUENE	17.264	134	74075	9.91	PPBV	100
104) N-BUTYLBENZENE	17.611	134	68487	10.01	PPBV	91
105) HEXACHLOROETHANE	17.791	117	88066	14.89	PPBV	99
106) HEXACHLOROBUTADIENE	18.833	225	95623	11.14	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.524	180	104466	9.74	PPBV	99
108) NAPHTHALENE	18.572	128	214346	8.50	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 2w53950.D
 Acq On : 9 Jun 2021 8:22 am
 Operator : thomash
 Sample : cc2318-10
 Misc : MS51444,V2W2391,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 10:18:01 2021
 Quant Method : C:\msdchem\1\METHODS\M2W2318.M
 Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Fri Mar 05 17:31:08 2021
 Response via : Initial Calibration



7.7.10
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43592.D
 Acq On : 20 Apr 2021 3:47 pm
 Operator : benk
 Sample : ic1785-0.04
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 14:02:13 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:07:04 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.592	130	125186	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.794	114	428991	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.056	82	189829	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.592	130	125186	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.977	95	216055	9.09	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	90.90%	
Target Compounds						
						Qvalue
2) Freon 152A	4.428	65	211	0.03	ppb(v#)	55
4) Propene	4.324	41	551	0.08	ppb(v#)	62
5) Chlorotrifluoroethene	4.373	116	944	0.05	ppb(v#)	92
6) Dichlorodifluoromethane	4.416	85	1613m	0.05	ppb(v)	
7) 1-Chloro-1,1-difluoro...	4.856	65	930	0.05	ppb(v#)	61
8) Chloromethane	4.850	50	472	0.05	ppb(v#)	42
9) Dichlorotetrafluoroethane	4.740	85	1777	0.05	ppb(v)	97
10) Vinyl Chloride	5.071	62	491	0.04	ppb(v#)	48
11) 1,3-Butadiene	5.132	54	290	0.04	ppb(v#)	84
13) Bromomethane	5.835	94	921	0.06	ppb(v#)	88
14) Chloroethane	6.141	64	203	0.03	ppb(v#)	49
15) Dichlorofluoromethane	6.606	67	1534	0.05	ppb(v#)	94
16) Acetonitrile	6.490	41	624	0.06	ppb(v#)	1
17) Freon 123	7.750	83	1720	0.05	ppb(v#)	86
18) Freon 123A	7.622	117	814	0.05	ppb(v)	95
19) Bromoethene	6.404	106	719	0.05	ppb(v#)	89
20) Acrolein	8.301	56	186	0.04	ppb(v#)	92
21) Trichlorofluoromethane	6.478	101	1799	0.05	ppb(v#)	82
22) Acetone	8.900	58	407	0.07	ppb(v)	98
24) Iodomethane	7.891	142	2289	0.05	ppb(v)	95
25) Isopropyl Alcohol	8.698	43	155	0.04	ppb(v#)	85
26) 1,1-Dichloroethene	7.603	61	974	0.05	ppb(v)	97
27) Freon 113	7.707	101	1612	0.05	ppb(v)	89
28) Methylene Chloride	8.790	84	1173	0.08	ppb(v#)	89
29) Carbon Disulfide	7.640	76	2124	0.05	ppb(v#)	74
30) Ethanol	7.554	45	467	0.07	ppb(v#)	46
31) Acrylonitrile	10.350	53	425	0.04	ppb(v#)	65
32) 3-Chloropropene	8.588	76	232	0.04	ppb(v#)	70
33) trans-1,2-Dichloroethene	9.114	61	962	0.05	ppb(v)	85
34) tert-Butyl Alcohol	9.561	59	1390	0.05	ppb(v#)	65
35) Methyl tert-Butyl Ether	9.396	73	2433	0.07	ppb(v)	96
36) Vinyl Acetate	10.748	43	1508	0.05	ppb(v#)	75
37) 1,1-Dichloroethane	10.265	63	1236	0.05	ppb(v#)	91
38) 2-Butanone	12.271	72	85	0.01	ppb(v#)	66
39) Hexane	9.298	56	444	0.04	ppb(v#)	83
40) cis-1,2-Dichloroethene	11.243	61	867	0.05	ppb(v)	91
41) Di-isopropyl Ether	10.105	87	486	0.05	ppb(v#)	91
42) Ethyl Acetate	12.100	61	468	0.12	ppb(v#)	1
43) Methyl Acrylate	11.971	55	1019	0.04	ppb(v#)	64
44) Chloroform	11.721	83	1471	0.05	ppb(v#)	85
45) 2,4-Dimethylpentane	10.375	57	1185	0.05	ppb(v#)	76
46) Tetrahydrofuran	12.051	72	177	0.03	ppb(v)	95
47) 1,1,1-Trichloroethane	12.106	97	1403	0.05	ppb(v#)	74
48) 1,2-Dichloroethane	13.091	62	740	0.05	ppb(v#)	86
49) Benzene	12.748	78	3306	0.07	ppb(v#)	80
50) Carbon Tetrachloride	11.996	117	1501	0.05	ppb(v)	98
51) Cyclohexane	11.641	56	1046	0.05	ppb(v)	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43592.D
 Acq On : 20 Apr 2021 3:47 pm
 Operator : benk
 Sample : ic1785-0.04
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 14:02:13 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:07:04 2021
 Response via : Initial Calibration

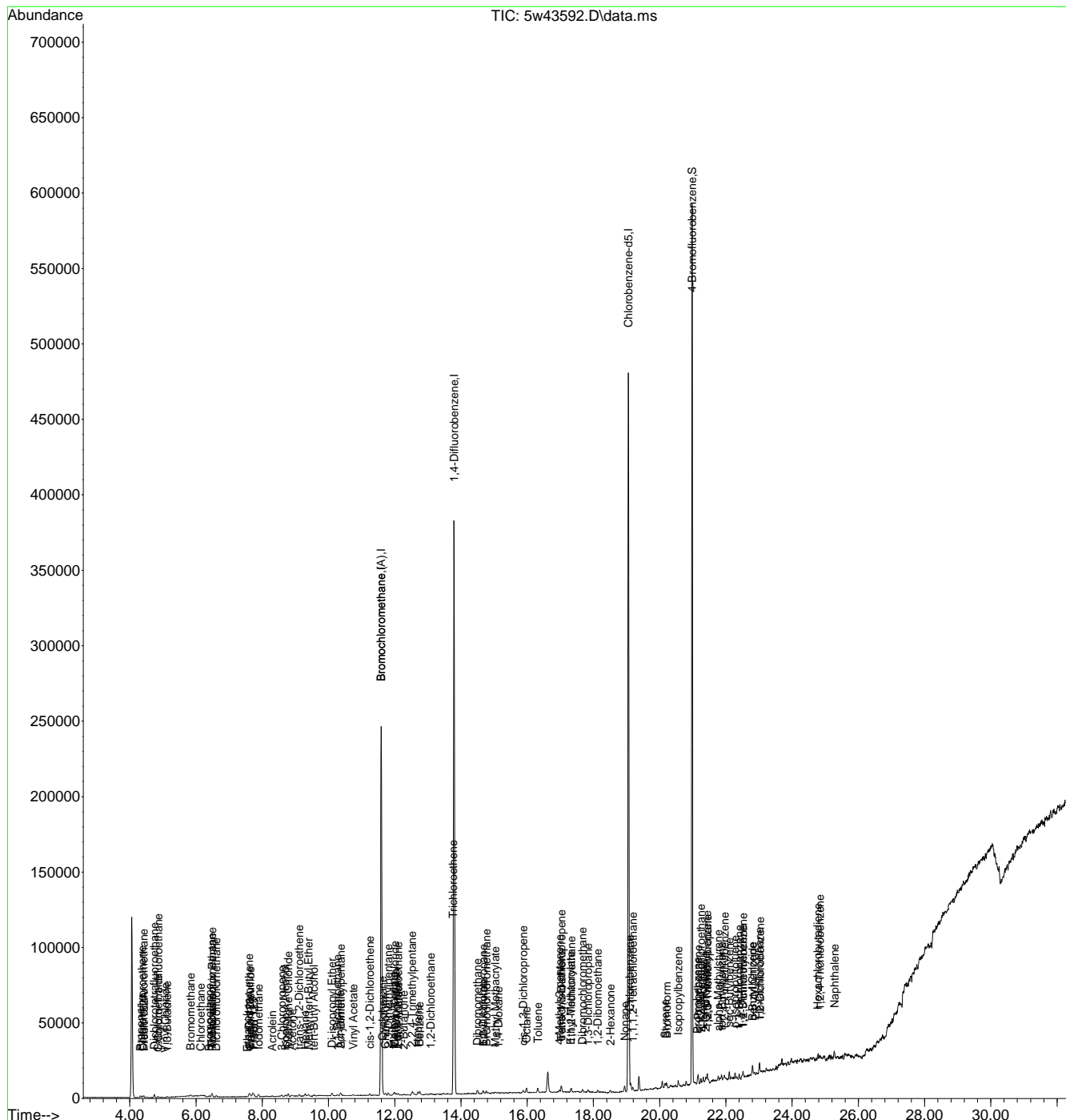
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 2,3-Dimethylpentane	11.806	71	263	0.03	ppb(v#)	88
54) 2,2,4-Trimethylpentane	12.528	57	3227	0.05	ppb(v#)	95
55) Heptane	12.699	71	652	0.05	ppb(v#)	81
56) Trichloroethene	13.764	97	696	0.06	ppb(v#)	23
57) 1,2-Dichloropropane	14.675	63	748	0.05	ppb(v#)	60
58) Dibromomethane	14.498	174	1123	0.06	ppb(v)	93
59) Ethyl Acrylate	14.682	55	1115	0.04	ppb(v#)	1
60) Methyl Methacrylate	15.030	69	576	0.04	ppb(v)	83
61) 1,4-Dioxane	15.134	88	525	0.05	ppb(v#)	73
62) Bromodichloromethane	14.767	83	1611	0.05	ppb(v#)	93
63) cis-1,3-Dichloropropene	15.881	75	1598	0.06	ppb(v#)	70
64) 4-Methyl-2-pentanone	16.976	58	533	0.04	ppb(v#)	85
65) trans-1,3-Dichloropropene	17.031	75	1470	0.06	ppb(v#)	67
66) Toluene	16.321	91	3412	0.07	ppb(v)	94
67) 1,1,2-Trichloroethane	17.330	97	937	0.05	ppb(v)	94
68) 1,3-Dichloropropane	17.838	76	1182	0.05	ppb(v#)	69
69) 2-Hexanone	18.511	43	1676	0.05	ppb(v#)	94
70) Ethyl Methacrylate	17.312	69	1057	0.05	ppb(v#)	59
71) Dibromochloromethane	17.673	129	1604	0.05	ppb(v#)	94
72) Tetrachloroethene	17.031	166	1254	0.05	ppb(v)	93
73) 1,2-Dibromoethane	18.126	107	1475	0.05	ppb(v#)	96
74) Octane	15.978	43	1876	0.06	ppb(v)	97
75) 1,1,1,2-Tetrachloroethane	19.190	131	1115	0.05	ppb(v)	96
77) Chlorobenzene	19.092	112	1968	0.05	ppb(v#)	71
80) Styrene	20.163	104	1752	0.05	ppb(v#)	63
81) Nonane	18.946	43	1968	0.06	ppb(v#)	96
83) Bromoform	20.212	173	1350	0.04	ppb(v#)	95
84) 1,1,2,2-Tetrachloroethane	21.246	83	2021	0.05	ppb(v#)	94
85) 1,2,3-Trichloropropane	21.442	75	1501	0.05	ppb(v)	91
86) Isopropylbenzene	20.561	105	3136	0.05	ppb(v#)	77
87) Bromobenzene	21.142	156	912	0.04	ppb(v#)	32
88) 2-Chlorotoluene	21.393	126	684	0.04	ppb(v#)	80
89) n-Propylbenzene	21.166	120	733	0.04	ppb(v)	87
91) 4-Ethyltoluene	21.319	105	2679	0.05	ppb(v#)	75
92) 1,3,5-Trimethylbenzene	21.429	105	2340	0.05	ppb(v#)	73
93) alpha-Methylstyrene	21.772	118	994	0.04	ppb(v)	91
94) tert-Butylbenzene	21.870	134	468	0.04	ppb(v)	96
95) 1,2,4-Trimethylbenzene	21.962	105	2012	0.04	ppb(v#)	72
96) 1,3-Dichlorobenzene	22.402	146	1196	0.04	ppb(v#)	83
97) 1,2,3-trimethylbenzene	22.524	105	2025	0.04	ppb(v#)	89
98) Benzyl Chloride	22.806	126	284	0.03	ppb(v#)	88
99) 1,4-Dichlorobenzene	22.506	146	1173	0.04	ppb(v#)	79
100) sec-Butylbenzene	22.102	134	653	0.05	ppb(v)	94
101) p-Isopropyltoluene	22.280	134	590	0.04	ppb(v)	88
102) 1,2-Dichlorobenzene	23.026	146	1247	0.04	ppb(v#)	77
103) n-Butylbenzene	22.806	134	588	0.04	ppb(v)	76
104) Hexachloroethane	23.008	201	639	0.03	ppb(v#)	37
105) 1,2,4-Trichlorobenzene	24.837	180	1047	0.07	ppb(v#)	87
106) Naphthalene	25.277	128	2245	0.08	ppb(v)	96
107) Hexachlorobutadiene	24.776	225	939	0.04	ppb(v#)	28
109) TVHC as equiv Pentane	6.484	TIC	4395m	0.04	ppb(v)	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43592.D
 Acq On : 20 Apr 2021 3:47 pm
 Operator : benk
 Sample : ic1785-0.04
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 14:02:13 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:07:04 2021
 Response via : Initial Calibration



7.7.11
7

Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43592.D Analyst approved: 04/21/21 14:25 Dana Tryon
Injection Time: 04/20/21 15:47 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		4.42	Poor instrument integration
TVHC As Equiv Pentane			6.48	Poor instrument integration

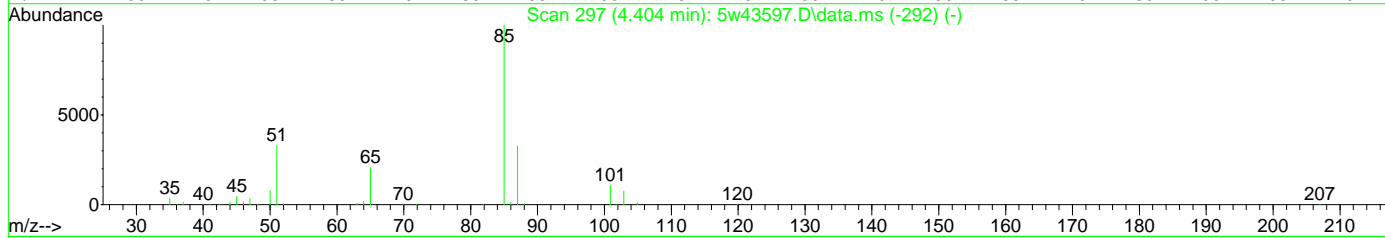
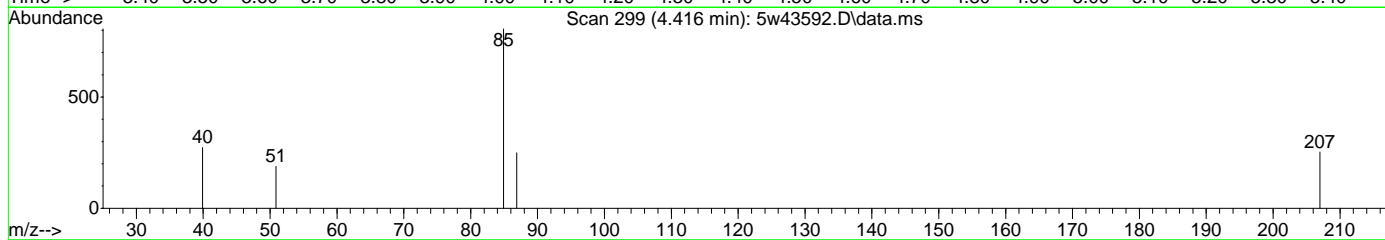
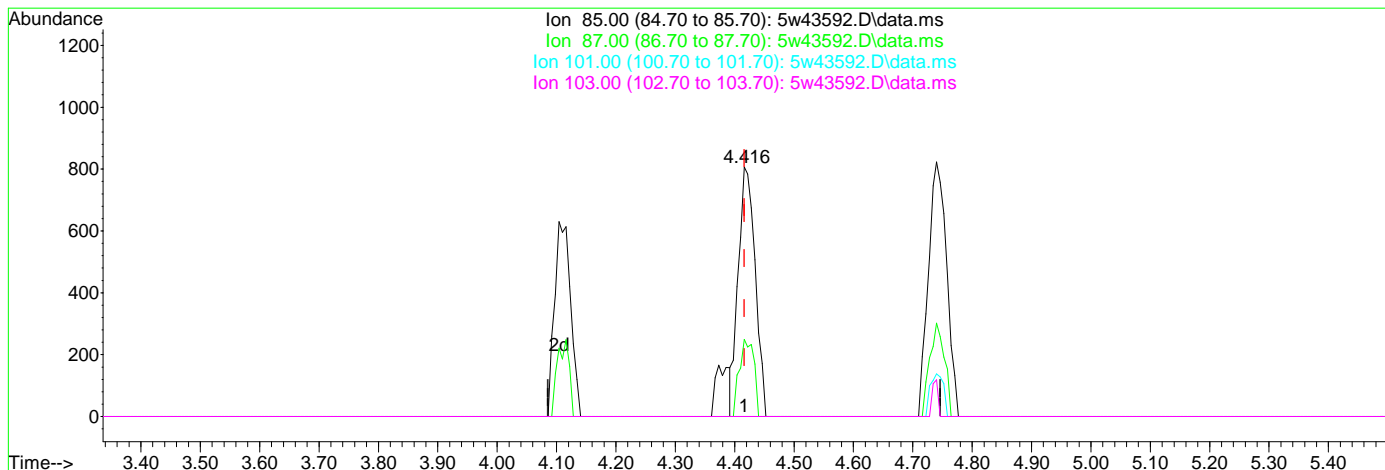
7.7.11.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43592.D
 Acq On : 20 Apr 2021 3:47 pm
 Operator : benk
 Sample : ic1785-0.04
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 14:02:13 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:07:04 2021
 Response via : Initial Calibration



(6) Dichlorodifluoromethane
 4.416min (0.000) 0.05ppb(v) m
 response 1613

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	30.86
101.00	9.30	0.00#
103.00	6.20	0.00#

7.7.11.2
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43593.D
 Acq On : 20 Apr 2021 4:35 pm
 Operator : benk
 Sample : ic1785-0.1
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:06:55 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:05:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.592	130	110914	10.00	ppb(v #)	0.00
53) 1,4-Difluorobenzene	13.794	114	366374	10.00	ppb(v #)	0.00
76) Chlorobenzene-d5	19.056	82	185410	10.00	ppb(v #)	0.00
108) Bromochloromethane (A)	11.592	130	110914	10.00	ppb(v #)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.977	95	218026	9.30	ppb(v #)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	93.00%	
Target Compounds						
					Qvalue	
2) Freon 152A	4.428	65	673	0.12	ppb(v#)	55
3) Chlorodifluoromethane	4.508	67	139	0.06	ppb(v#)	41
4) Propene	4.324	41	1010	0.18	ppb(v#)	75
5) Chlorotrifluoroethene	4.373	116	2078	0.13	ppb(v#)	6
6) Dichlorodifluoromethane	4.422	85	3429	0.13	ppb(v#)	98
7) 1-Chloro-1,1-difluoro...	4.856	65	2121	0.13	ppb(v#)	93
8) Chloromethane	4.850	50	954	0.13	ppb(v#)	92
9) Dichlorotetrafluoroethane	4.740	85	3809	0.13	ppb(v#)	98
10) Vinyl Chloride	5.077	62	1183	0.12	ppb(v#)	91
11) 1,3-Butadiene	5.138	54	833	0.13	ppb(v#)	96
13) Bromomethane	5.829	94	1787	0.14	ppb(v#)	87
14) Chloroethane	6.141	64	731	0.15	ppb(v#)	74
15) Dichlorofluoromethane	6.612	67	3600	0.14	ppb(v#)	93
16) Acetonitrile	6.484	41	1561	0.19	ppb(v#)	52
17) Freon 123	7.744	83	3824	0.14	ppb(v#)	89
18) Freon 123A	7.616	117	1770	0.12	ppb(v#)	96
19) Bromoethene	6.398	106	1652	0.13	ppb(v#)	86
20) Acrolein	8.301	56	612	0.14	ppb(v#)	94
21) Trichlorofluoromethane	6.471	101	3998	0.14	ppb(v#)	94
22) Acetone	8.900	58	821	0.17	ppb(v#)	97
23) Pentane	6.484	57	369	0.14	ppb(v#)	80
24) Iodomethane	7.879	142	4865	0.13	ppb(v#)	95
25) Isopropyl Alcohol	8.704	43	567	0.17	ppb(v#)	67
26) 1,1-Dichloroethene	7.603	61	2376	0.14	ppb(v#)	99
27) Freon 113	7.713	101	3597	0.13	ppb(v#)	96
28) Methylene Chloride	8.784	84	1952	0.17	ppb(v#)	86
29) Carbon Disulfide	7.640	76	4564	0.14	ppb(v#)	99
30) Ethanol	7.560	45	1031	0.19	ppb(v#)	91
31) Acrylonitrile	10.350	53	1383	0.16	ppb(v#)	98
32) 3-Chloropropene	8.582	76	676	0.12	ppb(v#)	63
33) trans-1,2-Dichloroethene	9.114	61	2327	0.15	ppb(v#)	92
34) tert-Butyl Alcohol	9.567	59	3223	0.15	ppb(v#)	89
35) Methyl tert-Butyl Ether	9.384	73	4337	0.14	ppb(v#)	96
36) Vinyl Acetate	10.742	43	4423	0.16	ppb(v#)	93
37) 1,1-Dichloroethane	10.277	63	2925	0.15	ppb(v#)	97
38) 2-Butanone	12.271	72	574	0.11	ppb(v#)	72
39) Hexane	9.298	56	1142	0.13	ppb(v#)	86
40) cis-1,2-Dichloroethene	11.249	61	2228	0.15	ppb(v#)	87
41) Di-isopropyl Ether	10.105	87	1118	0.12	ppb(v#)	66
42) Ethyl Acetate	11.947	61	398	0.11	ppb(v#)	92
43) Methyl Acrylate	11.965	55	2796	0.14	ppb(v#)	96
44) Chloroform	11.727	83	3309	0.13	ppb(v#)	96
45) 2,4-Dimethylpentane	10.368	57	2840	0.15	ppb(v#)	95
46) Tetrahydrofuran	12.051	72	674	0.12	ppb(v#)	85
47) 1,1,1-Trichloroethane	12.100	97	3065	0.13	ppb(v#)	92
48) 1,2-Dichloroethane	13.091	62	1920	0.14	ppb(v#)	88
49) Benzene	12.748	78	5975	0.16	ppb(v#)	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43593.D
 Acq On : 20 Apr 2021 4:35 pm
 Operator : benk
 Sample : ic1785-0.1
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:06:55 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:05:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Carbon Tetrachloride	11.996	117	3105	0.12	ppb(v)	96
51) Cyclohexane	11.635	56	2532	0.15	ppb(v)	89
52) 2,3-Dimethylpentane	11.806	71	900	0.12	ppb(v#)	88
54) 2,2,4-Trimethylpentane	12.528	57	7839	0.15	ppb(v#)	95
55) Heptane	12.699	71	1491	0.14	ppb(v)	89
56) Trichloroethene	13.758	97	1272	0.12	ppb(v)	75
57) 1,2-Dichloropropane	14.663	63	1842	0.14	ppb(v#)	88
58) Dibromomethane	14.498	174	1632	0.10	ppb(v)	76
59) Ethyl Acrylate	14.675	55	3463	0.14	ppb(v#)	46
60) Methyl Methacrylate	15.024	69	1425	0.12	ppb(v#)	82
61) 1,4-Dioxane	15.128	88	1061	0.13	ppb(v#)	90
62) Bromodichloromethane	14.761	83	3380	0.13	ppb(v)	98
63) cis-1,3-Dichloropropene	15.881	75	2978	0.14	ppb(v#)	85
64) 4-Methyl-2-pentanone	16.969	58	1353	0.13	ppb(v)	95
65) trans-1,3-Dichloropropene	17.037	75	2743	0.15	ppb(v#)	84
66) Toluene	16.315	91	5599	0.14	ppb(v)	97
67) 1,1,2-Trichloroethane	17.337	97	1849	0.12	ppb(v)	93
68) 1,3-Dichloropropane	17.838	76	2498	0.13	ppb(v#)	79
69) 2-Hexanone	18.499	43	3790	0.15	ppb(v#)	88
70) Ethyl Methacrylate	17.306	69	2216	0.11	ppb(v#)	87
71) Dibromochloromethane	17.673	129	2954	0.11	ppb(v#)	93
72) Tetrachloroethene	17.031	166	2094	0.10	ppb(v)	96
73) 1,2-Dibromoethane	18.132	107	2721	0.12	ppb(v#)	98
74) Octane	15.978	43	4204	0.16	ppb(v)	93
75) 1,1,1,2-Tetrachloroethane	19.190	131	1896	0.10	ppb(v)	95
77) Chlorobenzene	19.086	112	3755	0.10	ppb(v#)	70
78) Ethylbenzene	19.129	91	7528	0.13	ppb(v#)	91
79) m,p-Xylene	19.374	91	11282	0.13	ppb(v#)	95
80) Styrene	20.157	104	3137	0.10	ppb(v#)	76
81) Nonane	18.939	43	4139	0.14	ppb(v#)	92
82) o-Xylene	20.077	91	5558	0.12	ppb(v#)	90
83) Bromoform	20.206	173	2514	0.08	ppb(v#)	91
84) 1,1,2,2-Tetrachloroethane	21.240	83	4139	0.11	ppb(v#)	97
85) 1,2,3-Trichloropropane	21.442	75	3107	0.12	ppb(v)	89
86) Isopropylbenzene	20.561	105	6144	0.10	ppb(v#)	84
87) Bromobenzene	21.148	156	1634	0.08	ppb(v#)	51
88) 2-Chlorotoluene	21.399	126	1398	0.09	ppb(v#)	81
89) n-Propylbenzene	21.166	120	1453	0.09	ppb(v)	61
91) 4-Ethyltoluene	21.319	105	5549	0.10	ppb(v#)	89
92) 1,3,5-Trimethylbenzene	21.429	105	4613	0.10	ppb(v#)	81
93) alpha-Methylstyrene	21.772	118	2048	0.08	ppb(v)	92
94) tert-Butylbenzene	21.876	134	926	0.09	ppb(v)	86
95) 1,2,4-Trimethylbenzene	21.955	105	4262	0.09	ppb(v#)	84
96) 1,3-Dichlorobenzene	22.396	146	2423	0.07	ppb(v#)	87
97) 1,2,3-trimethylbenzene	22.524	105	4209	0.09	ppb(v#)	90
98) Benzyl Chloride	22.800	126	714	0.08	ppb(v#)	77
99) 1,4-Dichlorobenzene	22.506	146	2344	0.07	ppb(v#)	87
100) sec-Butylbenzene	22.102	134	1207	0.09	ppb(v)	74
101) p-Isopropyltoluene	22.280	134	1282	0.09	ppb(v#)	75
102) 1,2-Dichlorobenzene	23.026	146	2386	0.08	ppb(v#)	74
103) n-Butylbenzene	22.806	134	1080	0.08	ppb(v)	56
104) Hexachloroethane	23.008	201	1480	0.08	ppb(v#)	51
105) 1,2,4-Trichlorobenzene	24.837	180	941	0.06	ppb(v)	92
106) Naphthalene	25.271	128	2044	0.07	ppb(v#)	92
107) Hexachlorobutadiene	24.776	225	1349	0.06	ppb(v#)	69
109) TVHC as equiv Pentane	6.478	TIC	11621m	0.11	ppb(v)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43593.D
Acq On : 20 Apr 2021 4:35 pm
Operator : benk
Sample : ic1785-0.1
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:06:55 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 10:05:32 2021
Response via : Initial Calibration

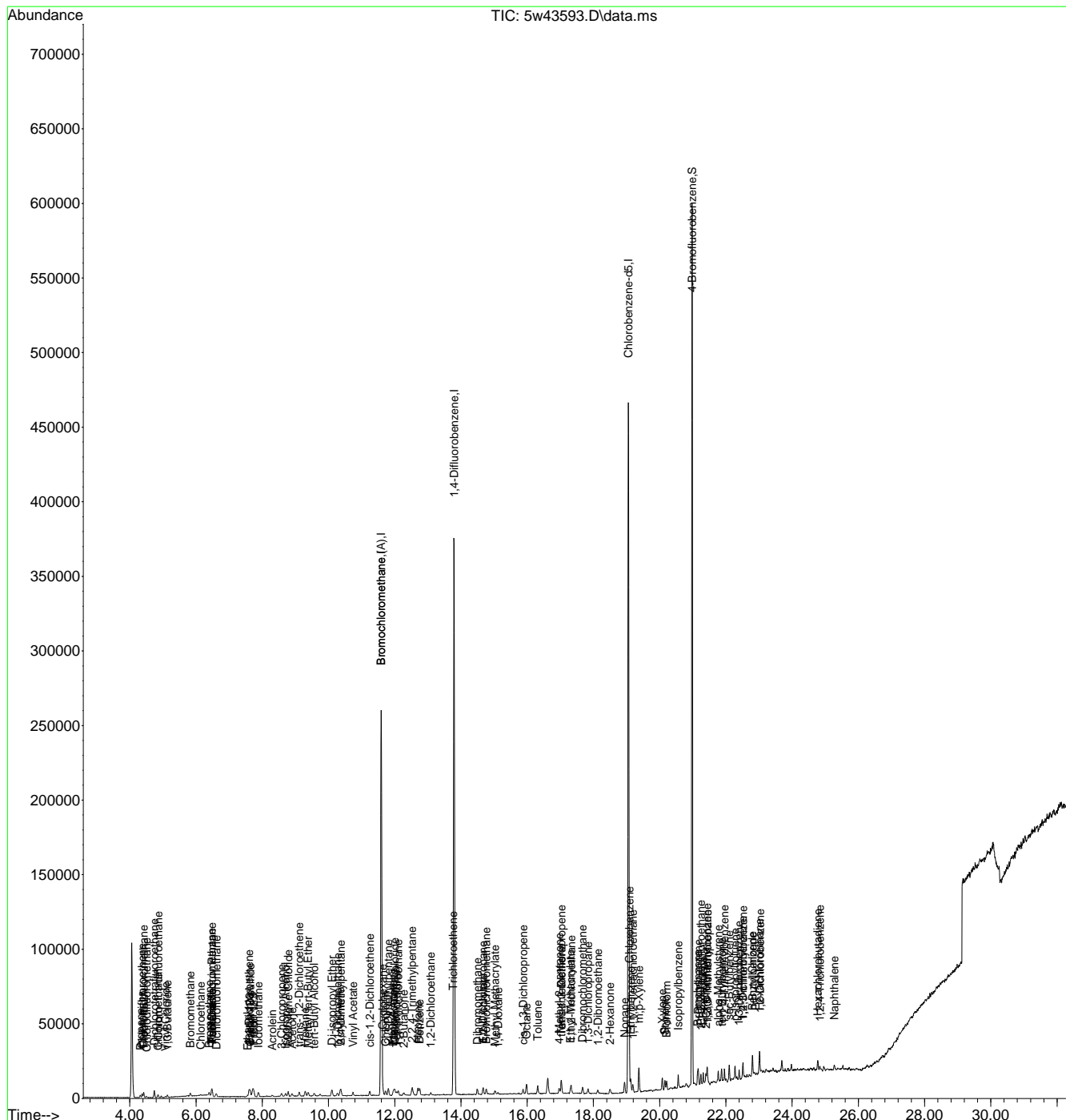
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43593.D
 Acq On : 20 Apr 2021 4:35 pm
 Operator : benk
 Sample : ic1785-0.1
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:06:55 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:05:32 2021
 Response via : Initial Calibration



7.7.12
7

Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43593.D Analyst approved: 04/21/21 14:25 Dana Tryon
Injection Time: 04/20/21 16:35 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
TVHC As Equiv Pentane			6.48	Poor instrument integration

7.7.12.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43594.D
 Acq On : 20 Apr 2021 5:24 pm
 Operator : benk
 Sample : ic1785-0.2
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:05:20 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:03:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.598	130	120365	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.795	114	417729	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.056	82	192330	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.598	130	120365	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.977	95	224822	9.11	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	91.10%	
Target Compounds						
					Qvalue	
2) Freon 152A	4.434	65	1397	0.23	ppb(v)	95
3) Chlorodifluoromethane	4.502	67	472	0.20	ppb(v#)	41
4) Propene	4.330	41	1547	0.28	ppb(v#)	86
5) Chlorotrifluoroethene	4.379	116	3983	0.23	ppb(v)	98
6) Dichlorodifluoromethane	4.422	85	6387m	0.23	ppb(v)	
7) 1-Chloro-1,1-difluoro...	4.857	65	4123	0.24	ppb(v)	96
8) Chloromethane	4.857	50	1900	0.24	ppb(v)	91
9) Dichlorotetrafluoroethane	4.746	85	7163	0.23	ppb(v)	98
10) Vinyl Chloride	5.083	62	2441	0.24	ppb(v#)	97
11) 1,3-Butadiene	5.144	54	1690	0.25	ppb(v)	93
12) n-Butane	4.961	58	239	0.17	ppb(v#)	81
13) Bromomethane	5.835	94	3327	0.26	ppb(v)	93
14) Chloroethane	6.147	64	1275	0.24	ppb(v#)	93
15) Dichlorofluoromethane	6.612	67	6670	0.25	ppb(v)	97
16) Acetonitrile	6.490	41	2500	0.30	ppb(v#)	62
17) Freon 123	7.744	83	6834	0.24	ppb(v)	98
18) Freon 123A	7.622	117	3604	0.24	ppb(v)	98
19) Bromoethene	6.404	106	3135	0.23	ppb(v#)	96
20) Acrolein	8.307	56	1148	0.25	ppb(v#)	97
21) Trichlorofluoromethane	6.478	101	7353	0.24	ppb(v)	99
22) Acetone	8.900	58	1394	0.28	ppb(v)	100
23) Pentane	6.484	57	671	0.24	ppb(v)	98
24) Iodomethane	7.885	142	9336	0.23	ppb(v)	97
25) Isopropyl Alcohol	8.705	43	988	0.30	ppb(v)	82
26) 1,1-Dichloroethene	7.603	61	4269	0.24	ppb(v)	96
27) Freon 113	7.707	101	6923	0.24	ppb(v)	92
28) Methylene Chloride	8.790	84	3340	0.29	ppb(v)	97
29) Carbon Disulfide	7.646	76	8236	0.24	ppb(v)	99
30) Ethanol	7.561	45	1776	0.35	ppb(v#)	95
31) Acrylonitrile	10.344	53	2175	0.25	ppb(v)	97
32) 3-Chloropropene	8.588	76	1257	0.21	ppb(v)	92
33) trans-1,2-Dichloroethene	9.121	61	3919	0.24	ppb(v)	98
34) tert-Butyl Alcohol	9.573	59	5446	0.24	ppb(v)	97
35) Methyl tert-Butyl Ether	9.390	73	7729	0.24	ppb(v)	96
36) Vinyl Acetate	10.742	43	7246	0.26	ppb(v)	97
37) 1,1-Dichloroethane	10.271	63	5142	0.25	ppb(v#)	99
38) 2-Butanone	12.265	72	1261	0.22	ppb(v)	97
39) Hexane	9.304	56	2094	0.23	ppb(v)	91
40) cis-1,2-Dichloroethene	11.250	61	3917	0.24	ppb(v)	90
41) Di-isopropyl Ether	10.106	87	2203	0.23	ppb(v)	97
42) Ethyl Acetate	11.953	61	797	0.21	ppb(v#)	91
43) Methyl Acrylate	11.959	55	4767	0.23	ppb(v)	95
44) Chloroform	11.727	83	6258	0.24	ppb(v)	100
45) 2,4-Dimethylpentane	10.375	57	5002	0.25	ppb(v)	97
46) Tetrahydrofuran	12.045	72	1298	0.22	ppb(v)	96
47) 1,1,1-Trichloroethane	12.106	97	5933	0.24	ppb(v)	97
48) 1,2-Dichloroethane	13.091	62	3450	0.24	ppb(v#)	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43594.D
 Acq On : 20 Apr 2021 5:24 pm
 Operator : benk
 Sample : ic1785-0.2
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:05:20 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:03:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.755	78	10360	0.27	ppb(v)	96
50) Carbon Tetrachloride	11.996	117	5976	0.22	ppb(v)	95
51) Cyclohexane	11.641	56	4387	0.26	ppb(v)	93
52) 2,3-Dimethylpentane	11.806	71	1758	0.22	ppb(v#)	79
54) 2,2,4-Trimethylpentane	12.528	57	13795	0.25	ppb(v)	99
55) Heptane	12.706	71	2732	0.23	ppb(v)	96
56) Trichloroethene	13.770	97	2562	0.22	ppb(v#)	64
57) 1,2-Dichloropropane	14.663	63	3491	0.24	ppb(v#)	94
58) Dibromomethane	14.498	174	3796	0.21	ppb(v)	97
59) Ethyl Acrylate	14.676	55	6505	0.24	ppb(v#)	67
60) Methyl Methacrylate	15.024	69	2946	0.21	ppb(v)	98
61) 1,4-Dioxane	15.116	88	2339	0.26	ppb(v#)	92
62) Bromodichloromethane	14.767	83	6557	0.23	ppb(v)	98
63) cis-1,3-Dichloropropene	15.875	75	5450	0.24	ppb(v#)	87
64) 4-Methyl-2-pentanone	16.964	58	2652	0.22	ppb(v)	96
65) trans-1,3-Dichloropropene	17.031	75	5139	0.25	ppb(v)	92
66) Toluene	16.315	91	11001	0.24	ppb(v)	99
67) 1,1,2-Trichloroethane	17.331	97	3700	0.22	ppb(v)	95
68) 1,3-Dichloropropane	17.838	76	5137	0.24	ppb(v)	94
69) 2-Hexanone	18.499	43	6858	0.25	ppb(v)	99
70) Ethyl Methacrylate	17.306	69	4782	0.22	ppb(v#)	78
71) Dibromochloromethane	17.679	129	6377	0.20	ppb(v#)	95
72) Tetrachloroethene	17.031	166	4999	0.21	ppb(v)	94
73) 1,2-Dibromoethane	18.132	107	5816	0.22	ppb(v#)	98
74) Octane	15.979	43	7367	0.27	ppb(v)	97
75) 1,1,1,2-Tetrachloroethane	19.190	131	4232	0.20	ppb(v)	98
77) Chlorobenzene	19.086	112	7714	0.21	ppb(v)	89
78) Ethylbenzene	19.129	91	14049	0.24	ppb(v#)	97
79) m,p-Xylene	19.374	91	20782	0.24	ppb(v#)	97
80) Styrene	20.157	104	6639	0.20	ppb(v#)	91
81) Nonane	18.940	43	7562	0.25	ppb(v)	96
82) o-Xylene	20.077	91	10362	0.23	ppb(v#)	91
83) Bromoform	20.212	173	5691	0.18	ppb(v)	96
84) 1,1,2,2-Tetrachloroethane	21.240	83	7836	0.21	ppb(v#)	94
85) 1,2,3-Trichloropropane	21.442	75	6014	0.23	ppb(v)	92
86) Isopropylbenzene	20.561	105	12545	0.20	ppb(v#)	90
87) Bromobenzene	21.148	156	3608	0.16	ppb(v#)	73
88) 2-Chlorotoluene	21.393	126	2848	0.17	ppb(v#)	70
89) n-Propylbenzene	21.166	120	2995	0.17	ppb(v)	75
91) 4-Ethyltoluene	21.313	105	11392	0.19	ppb(v#)	93
92) 1,3,5-Trimethylbenzene	21.429	105	9126	0.19	ppb(v#)	90
93) alpha-Methylstyrene	21.772	118	4154	0.16	ppb(v)	91
94) tert-Butylbenzene	21.870	134	1973	0.17	ppb(v)	83
95) 1,2,4-Trimethylbenzene	21.956	105	8493	0.17	ppb(v#)	92
96) 1,3-Dichlorobenzene	22.396	146	5288	0.15	ppb(v#)	87
97) 1,2,3-trimethylbenzene	22.518	105	8470	0.17	ppb(v#)	93
98) Benzyl Chloride	22.800	126	1473	0.15	ppb(v)	68
99) 1,4-Dichlorobenzene	22.506	146	4978	0.15	ppb(v#)	90
100) sec-Butylbenzene	22.102	134	2385	0.16	ppb(v)	70
101) p-Isopropyltoluene	22.280	134	2544	0.16	ppb(v)	88
102) 1,2-Dichlorobenzene	23.026	146	5020	0.15	ppb(v#)	89
103) n-Butylbenzene	22.806	134	2357	0.17	ppb(v)	77
104) Hexachloroethane	23.008	201	3087	0.15	ppb(v#)	57
105) 1,2,4-Trichlorobenzene	24.831	180	2427	0.14	ppb(v)	94
106) Naphthalene	25.271	128	4608	0.15	ppb(v)	95
107) Hexachlorobutadiene	24.776	225	3822	0.16	ppb(v#)	82
109) TVHC as equiv Pentane	6.484	TIC	22271m	0.20	ppb(v)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43594.D
Acq On : 20 Apr 2021 5:24 pm
Operator : benk
Sample : ic1785-0.2
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:05:20 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 10:03:18 2021
Response via : Initial Calibration

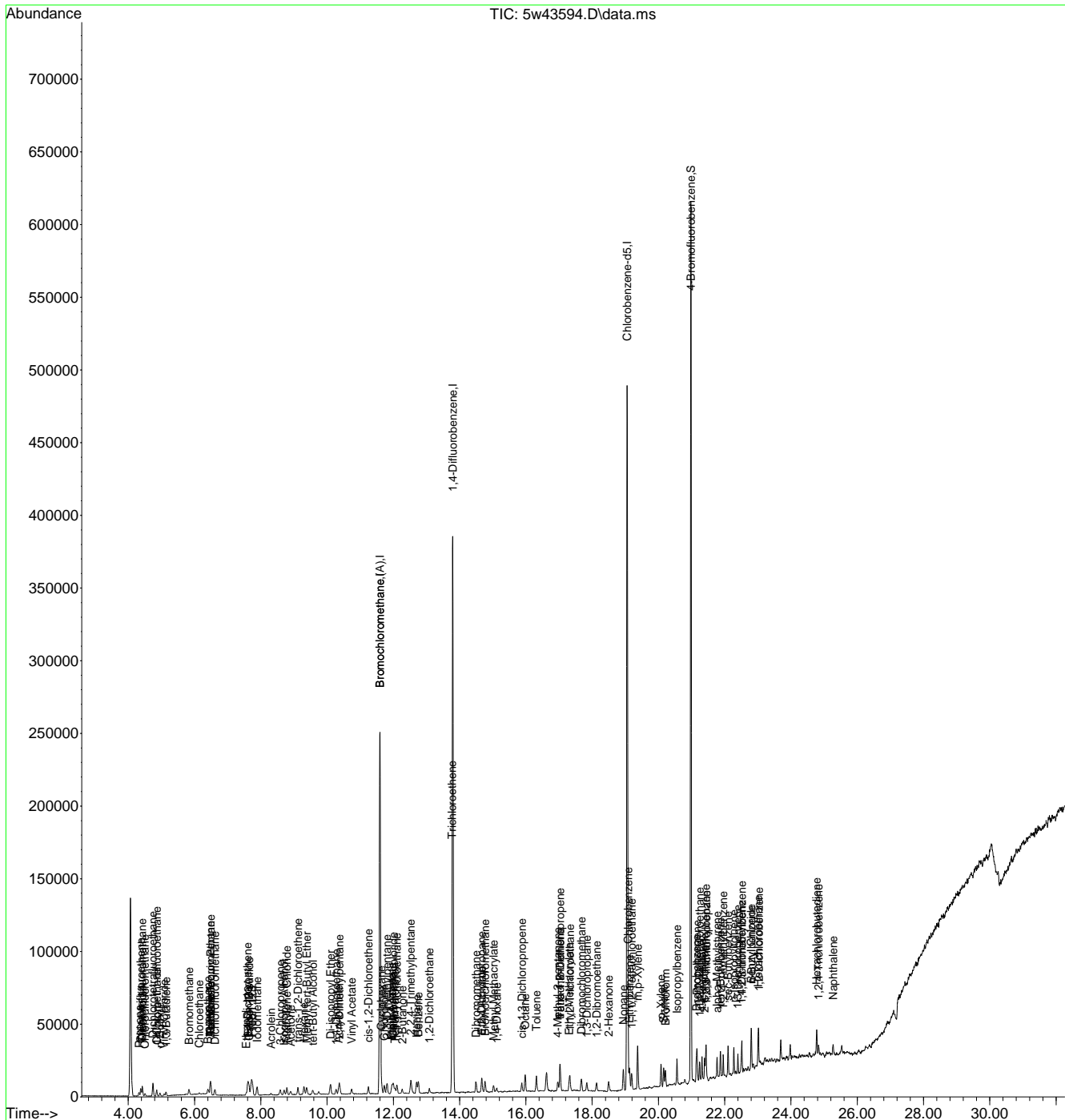
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43594.D
 Acq On : 20 Apr 2021 5:24 pm
 Operator : benk
 Sample : ic1785-0.2
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:05:20 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:03:18 2021
 Response via : Initial Calibration



7.7.13
7



Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43594.D Analyst approved: 04/21/21 14:25 Dana Tryon
Injection Time: 04/20/21 17:24 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		4.42	Poor instrument integration
TVHC As Equiv Pentane			6.48	Poor instrument integration

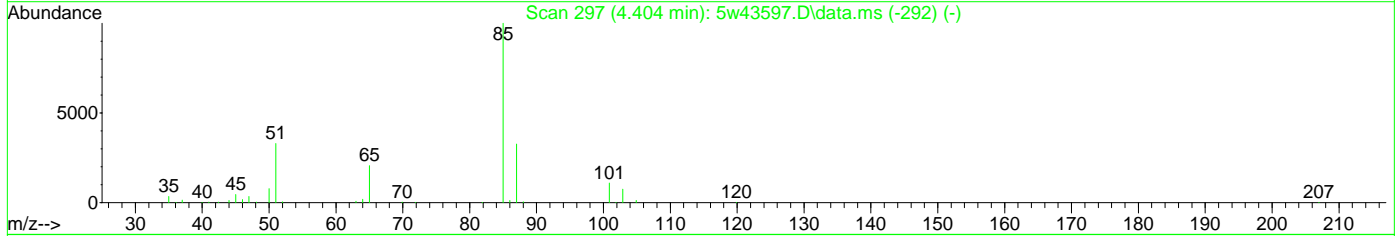
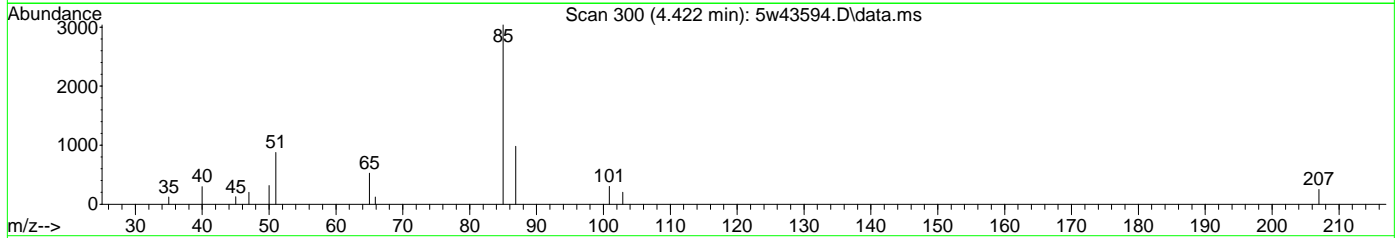
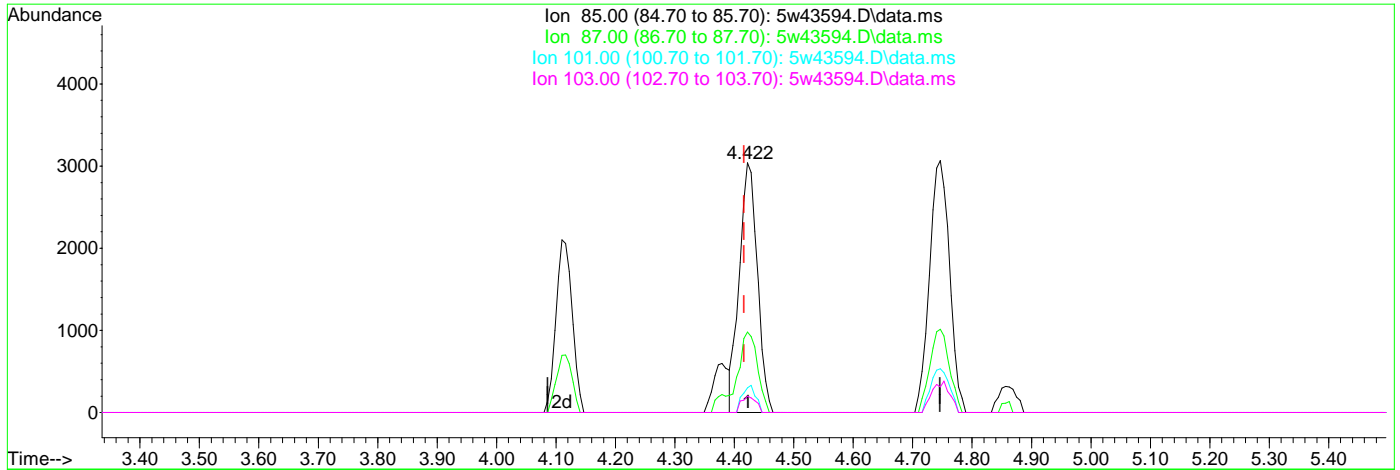
7.7.13.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43594.D
 Acq On : 20 Apr 2021 5:24 pm
 Operator : benk
 Sample : ic1785-0.2
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:05:20 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 10:03:18 2021
 Response via : Initial Calibration



(6) Dichlorodifluoromethane
 4.422min (+0.006) 0.23ppb(v) m
 response 6387

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	32.25
101.00	9.30	9.94
103.00	6.20	6.58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43595.D
 Acq On : 20 Apr 2021 6:14 pm
 Operator : benk
 Sample : ic1785-0.5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:03:02 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:59:31 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.592	130	118886	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.788	114	409811	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.056	82	187158	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.592	130	118886	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.977	95	220900	9.01	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	90.10%	
Target Compounds						
					Qvalue	
2) Freon 152A	4.422	65	3433	0.61	ppb(v)	95
3) Chlorodifluoromethane	4.495	67	1303	0.59	ppb(v)	92
4) Propene	4.318	41	3336	0.64	ppb(v#)	93
5) Chlorotrifluoroethene	4.367	116	9649	0.58	ppb(v)	99
6) Dichlorodifluoromethane	4.416	85	15238m	0.57	ppb(v)	
7) 1-Chloro-1,1-difluoro...	4.850	65	9638	0.59	ppb(v)	99
8) Chloromethane	4.850	50	4452	0.61	ppb(v)	99
9) Dichlorotetrafluoroethane	4.734	85	17239	0.59	ppb(v)	96
10) Vinyl Chloride	5.071	62	5739	0.60	ppb(v#)	98
11) 1,3-Butadiene	5.132	54	3801	0.59	ppb(v)	93
12) n-Butane	4.948	58	705	0.52	ppb(v#)	74
13) Bromomethane	5.823	94	7525	0.61	ppb(v)	98
14) Chloroethane	6.141	64	3019	0.61	ppb(v#)	97
15) Dichlorofluoromethane	6.606	67	15055	0.61	ppb(v)	99
16) Acetonitrile	6.484	41	5238	0.69	ppb(v#)	87
17) Freon 123	7.744	83	16398	0.62	ppb(v)	95
18) Freon 123A	7.616	117	8480	0.58	ppb(v)	99
19) Bromoethene	6.398	106	7435	0.58	ppb(v)	94
20) Acrolein	8.288	56	2705	0.64	ppb(v#)	99
21) Trichlorofluoromethane	6.472	101	17106	0.59	ppb(v)	99
22) Acetone	8.894	58	3207	0.72	ppb(v)	89
23) Pentane	6.484	57	1591	0.61	ppb(v)	94
24) Iodomethane	7.879	142	22389	0.58	ppb(v)	99
25) Isopropyl Alcohol	8.692	43	2251	0.77	ppb(v)	92
26) 1,1-Dichloroethene	7.597	61	10194	0.61	ppb(v)	98
27) Freon 113	7.707	101	16376	0.61	ppb(v)	96
28) Methylene Chloride	8.784	84	7107	0.66	ppb(v)	96
29) Carbon Disulfide	7.640	76	19839	0.61	ppb(v)	98
30) Ethanol	7.548	45	4069	0.95	ppb(v)	97
31) Acrylonitrile	10.332	53	5523	0.68	ppb(v)	98
32) 3-Chloropropene	8.582	76	3353	0.60	ppb(v)	98
33) trans-1,2-Dichloroethene	9.114	61	9367	0.62	ppb(v)	97
34) tert-Butyl Alcohol	9.555	59	12963	0.61	ppb(v)	99
35) Methyl tert-Butyl Ether	9.377	73	19094	0.64	ppb(v)	98
36) Vinyl Acetate	10.736	43	17118	0.65	ppb(v)	99
37) 1,1-Dichloroethane	10.271	63	12284	0.63	ppb(v)	99
38) 2-Butanone	12.253	72	3278	0.60	ppb(v)	83
39) Hexane	9.298	56	5568	0.65	ppb(v)	93
40) cis-1,2-Dichloroethene	11.243	61	9546	0.64	ppb(v)	92
41) Di-isopropyl Ether	10.093	87	5444	0.59	ppb(v)	91
42) Ethyl Acetate	11.935	61	2107	0.59	ppb(v)	79
43) Methyl Acrylate	11.953	55	12287	0.64	ppb(v)	99
44) Chloroform	11.721	83	14746	0.60	ppb(v)	96
45) 2,4-Dimethylpentane	10.368	57	12230	0.65	ppb(v)	99
46) Tetrahydrofuran	12.039	72	3300	0.59	ppb(v)	97
47) 1,1,1-Trichloroethane	12.106	97	13842	0.58	ppb(v)	97
48) 1,2-Dichloroethane	13.085	62	8472	0.64	ppb(v)	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43595.D
 Acq On : 20 Apr 2021 6:14 pm
 Operator : benk
 Sample : ic1785-0.5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:03:02 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:59:31 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.754	78	22395	0.63	ppb(v)	97
50) Carbon Tetrachloride	11.996	117	14545	0.55	ppb(v)	96
51) Cyclohexane	11.635	56	10363	0.65	ppb(v)	94
52) 2,3-Dimethylpentane	11.806	71	4563	0.61	ppb(v)	98
54) 2,2,4-Trimethylpentane	12.528	57	34041	0.67	ppb(v)	99
55) Heptane	12.699	71	6637	0.59	ppb(v)	92
56) Trichloroethene	13.764	97	6194	0.56	ppb(v)	87
57) 1,2-Dichloropropane	14.663	63	8661	0.62	ppb(v)	97
58) Dibromomethane	14.492	174	7841	0.43	ppb(v)	83
59) Ethyl Acrylate	14.663	55	16412	0.64	ppb(v#)	89
60) Methyl Methacrylate	15.012	69	7420	0.56	ppb(v)	88
61) 1,4-Dioxane	15.110	88	5291	0.62	ppb(v)	90
62) Bromodichloromethane	14.761	83	15632	0.57	ppb(v)	99
63) cis-1,3-Dichloropropene	15.874	75	12429	0.56	ppb(v)	94
64) 4-Methyl-2-pentanone	16.963	58	6733	0.58	ppb(v)	93
65) trans-1,3-Dichloropropene	17.031	75	11618	0.59	ppb(v)	93
66) Toluene	16.315	91	23281	0.53	ppb(v)	100
67) 1,1,2-Trichloroethane	17.324	97	8043	0.49	ppb(v)	94
68) 1,3-Dichloropropane	17.832	76	11580	0.57	ppb(v#)	90
69) 2-Hexanone	18.493	43	17812	0.71	ppb(v#)	92
70) Ethyl Methacrylate	17.300	69	11572	0.55	ppb(v)	96
71) Dibromochloromethane	17.673	129	13982	0.44	ppb(v)	97
72) Tetrachloroethene	17.031	166	10138	0.42	ppb(v)	96
73) 1,2-Dibromoethane	18.126	107	12563	0.48	ppb(v)	97
74) Octane	15.978	43	18023	0.72	ppb(v)	94
75) 1,1,1,2-Tetrachloroethane	19.190	131	9126	0.44	ppb(v)	95
77) Chlorobenzene	19.086	112	16426	0.44	ppb(v)	91
78) Ethylbenzene	19.123	91	29356	0.51	ppb(v)	97
79) m,p-Xylene	19.374	91	43580	0.52	ppb(v)	97
80) Styrene	20.157	104	13996	0.41	ppb(v)	93
81) Nonane	18.939	43	18971	0.71	ppb(v)	93
82) o-Xylene	20.077	91	22351	0.51	ppb(v)	94
83) Bromoform	20.206	173	11622	0.35	ppb(v)	98
84) 1,1,2,2-Tetrachloroethane	21.240	83	18312	0.50	ppb(v#)	98
85) 1,2,3-Trichloropropane	21.442	75	14621	0.58	ppb(v)	93
86) Isopropylbenzene	20.561	105	27698	0.44	ppb(v#)	91
87) Bromobenzene	21.142	156	7946	0.35	ppb(v#)	68
88) 2-Chlorotoluene	21.393	126	6405	0.38	ppb(v#)	66
89) n-Propylbenzene	21.166	120	6802	0.39	ppb(v)	75
91) 4-Ethyltoluene	21.313	105	25973	0.43	ppb(v#)	93
92) 1,3,5-Trimethylbenzene	21.429	105	21193	0.44	ppb(v#)	91
93) alpha-Methylstyrene	21.772	118	9436	0.35	ppb(v)	96
94) tert-Butylbenzene	21.870	134	4303	0.37	ppb(v)	77
95) 1,2,4-Trimethylbenzene	21.955	105	21857	0.45	ppb(v#)	94
96) 1,3-Dichlorobenzene	22.506	146	13866	0.39	ppb(v)	96
97) 1,2,3-trimethylbenzene	22.518	105	22648	0.48	ppb(v)	96
98) Benzyl Chloride	22.800	126	3996	0.41	ppb(v#)	67
99) 1,4-Dichlorobenzene	22.506	146	13866	0.40	ppb(v)	95
100) sec-Butylbenzene	22.102	134	6110	0.42	ppb(v)	81
101) p-Isopropyltoluene	22.280	134	6764	0.42	ppb(v)	91
102) 1,2-Dichlorobenzene	23.026	146	14016	0.42	ppb(v#)	94
103) n-Butylbenzene	22.806	134	6042	0.43	ppb(v)	73
104) Hexachloroethane	23.008	201	8623	0.40	ppb(v)	74
105) 1,2,4-Trichlorobenzene	24.837	180	5969	0.33	ppb(v)	97
106) Naphthalene	25.271	128	11033	0.36	ppb(v)	97
107) Hexachlorobutadiene	24.776	225	9645	0.40	ppb(v#)	93
109) TVHC as equiv Pentane	6.478	TIC	62289	0.60	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43595.D
Acq On : 20 Apr 2021 6:14 pm
Operator : benk
Sample : ic1785-0.5
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:03:02 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 09:59:31 2021
Response via : Initial Calibration

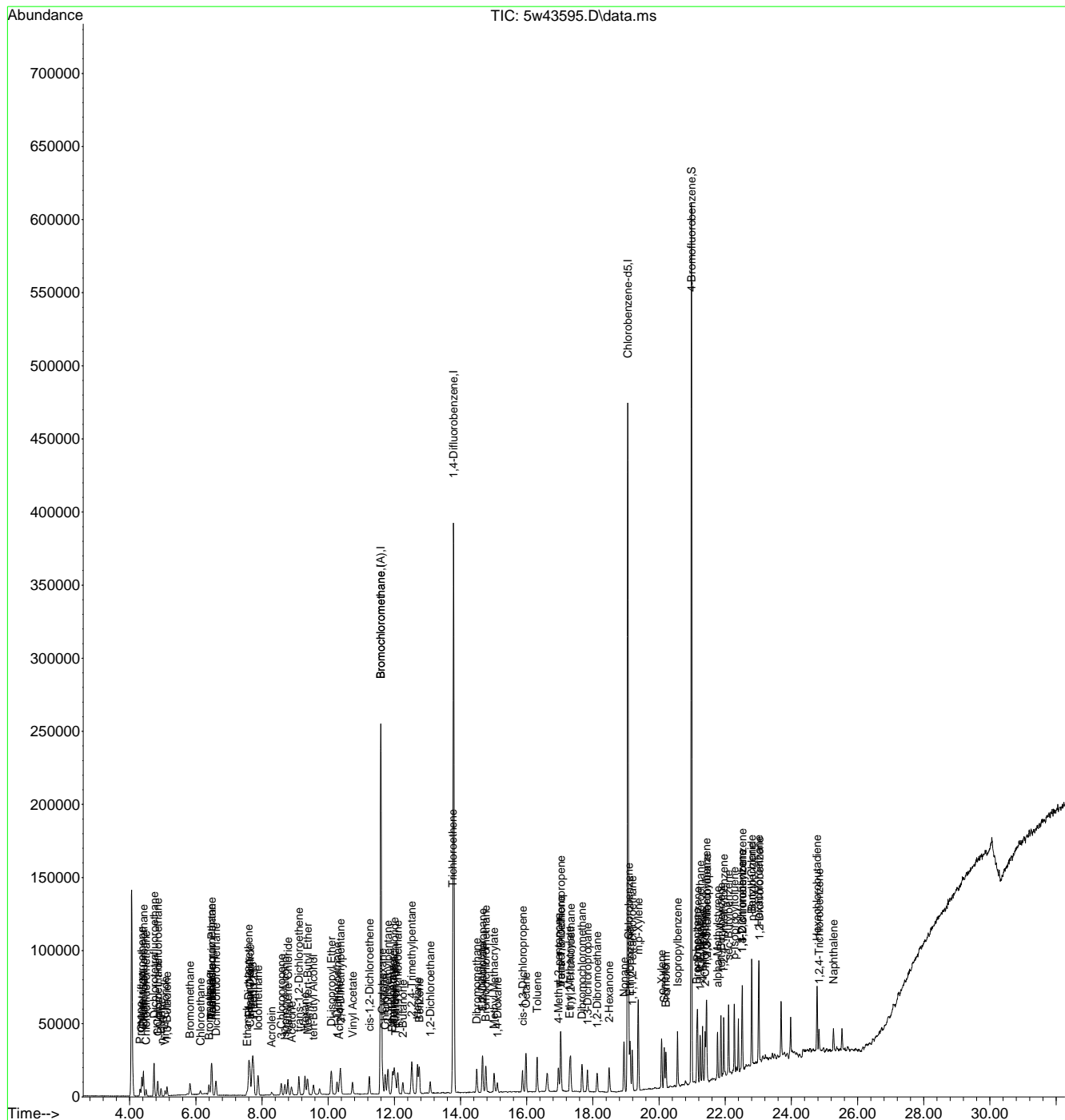
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43595.D
 Acq On : 20 Apr 2021 6:14 pm
 Operator : benk
 Sample : ic1785-0.5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:03:02 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:59:31 2021
 Response via : Initial Calibration



7.7.14
7

Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43595.D Analyst approved: 04/21/21 14:25 Dana Tryon
Injection Time: 04/20/21 18:14 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		4.42	Poor instrument integration

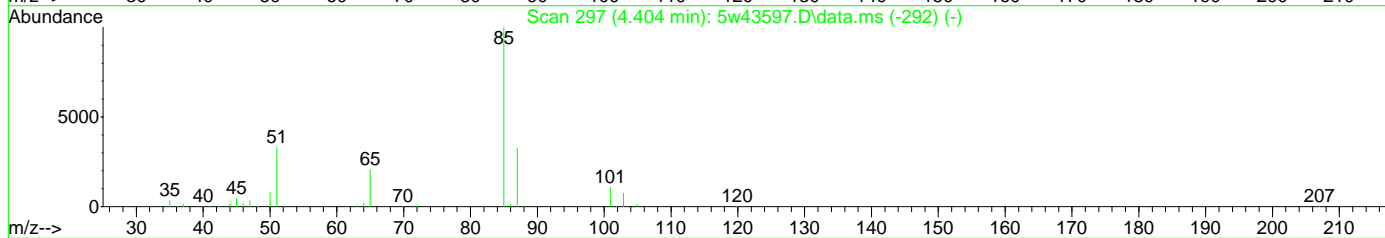
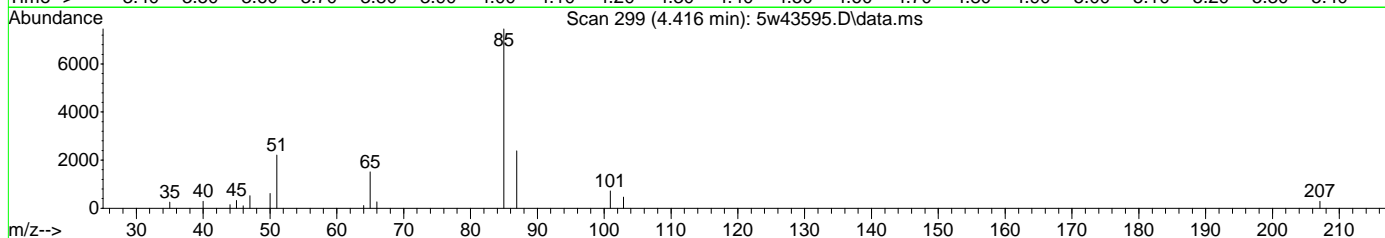
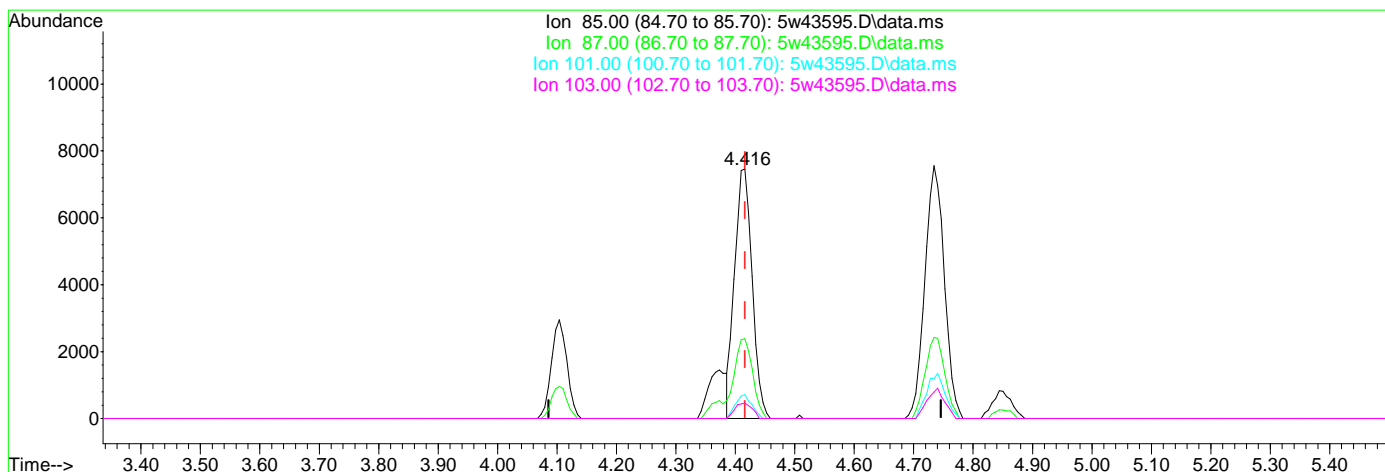
7.7.14.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43595.D
 Acq On : 20 Apr 2021 6:14 pm
 Operator : benk
 Sample : ic1785-0.5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 10:03:02 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:59:31 2021
 Response via : Initial Calibration



(6) Dichlorodifluoromethane
 4.416min (0.000) 0.57ppb(v) m
 response 15238

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	31.99
101.00	9.30	9.56
103.00	6.20	6.23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43596.D
 Acq On : 20 Apr 2021 7:02 pm
 Operator : benk
 Sample : ic1785-5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 16:33:04 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 13:58:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.598	130	124109	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.794	114	426539	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.056	82	190982	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.598	130	124109	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.977	95	249292	10.55	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	105.50%	
Target Compounds						
					Qvalue	
2) Freon 152A	4.422	65	33027	5.21	ppb(v)	100
3) Chlorodifluoromethane	4.496	67	12854	5.63	ppb(v)	100
4) Propene	4.318	41	30143	4.91	ppb(v)	100
5) Chlorotrifluoroethene	4.367	116	93369	4.78	ppb(v)	100
6) Dichlorodifluoromethane	4.416	85	153429m	4.83	ppb(v)	100
7) 1-Chloro-1,1-difluoro...	4.850	65	93765	4.80	ppb(v)	100
8) Chloromethane	4.850	50	43345	4.80	ppb(v)	100
9) Dichlorotetrafluoroethane	4.740	85	168399	4.79	ppb(v)	100
10) Vinyl Chloride	5.071	62	56057	4.98	ppb(v)	100
11) 1,3-Butadiene	5.132	54	38242	5.11	ppb(v)	100
12) n-Butane	4.954	58	7809	5.59	ppb(v)	100
13) Bromomethane	5.823	94	71377	4.49	ppb(v)	100
14) Chloroethane	6.141	64	29050	4.97	ppb(v)	100
15) Dichlorofluoromethane	6.606	67	143835	4.64	ppb(v)	100
16) Acetonitrile	6.484	41	45970	4.98	ppb(v)	100
17) Freon 123	7.744	83	154922	4.68	ppb(v)	100
18) Freon 123A	7.616	117	82787	4.82	ppb(v)	100
19) Bromoethene	6.398	106	73389	4.82	ppb(v)	100
20) Acrolein	8.289	56	24964	4.89	ppb(v)	100
21) Trichlorofluoromethane	6.478	101	167645	4.71	ppb(v)	100
22) Acetone	8.876	58	26118	4.82	ppb(v)	100
23) Pentane	6.484	57	15433	4.97	ppb(v)	100
24) Iodomethane	7.885	142	220703	4.79	ppb(v)	100
25) Isopropyl Alcohol	8.668	43	17190	4.70	ppb(v)	100
26) 1,1-Dichloroethene	7.597	61	96291	4.71	ppb(v)	100
27) Freon 113	7.713	101	156185	4.75	ppb(v)	100
28) Methylene Chloride	8.784	84	62004	4.40	ppb(v)	100
29) Carbon Disulfide	7.646	76	188114	4.67	ppb(v)	100
30) Ethanol	7.536	45	25049	4.74	ppb(v)	100
31) Acrylonitrile	10.332	53	47734	4.63	ppb(v)	100
32) 3-Chloropropene	8.582	76	32461	5.18	ppb(v)	100
33) trans-1,2-Dichloroethene	9.114	61	89511	4.67	ppb(v)	100
34) tert-Butyl Alcohol	9.530	59	123715	4.61	ppb(v)	100
35) Methyl tert-Butyl Ether	9.359	73	172048	4.41	ppb(v)	100
36) Vinyl Acetate	10.723	43	156206	4.64	ppb(v)	100
37) 1,1-Dichloroethane	10.271	63	115631	4.71	ppb(v)	100
38) 2-Butanone	12.241	72	31887	5.72	ppb(v)	100
39) Hexane	9.298	56	51373	5.00	ppb(v)	100
40) cis-1,2-Dichloroethene	11.243	61	89844	4.82	ppb(v)	100
41) Di-isopropyl Ether	10.081	87	53192	4.96	ppb(v)	100
42) Ethyl Acetate	11.929	61	21157	5.32	ppb(v)	100
43) Methyl Acrylate	11.941	55	114865	4.92	ppb(v)	100
44) Chloroform	11.727	83	145335	4.87	ppb(v)	100
45) 2,4-Dimethylpentane	10.375	57	112596	4.72	ppb(v)	100
46) Tetrahydrofuran	12.020	72	33351	5.44	ppb(v)	100
47) 1,1,1-Trichloroethane	12.106	97	139042	4.89	ppb(v)	100
48) 1,2-Dichloroethane	13.085	62	79092	4.86	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43596.D
 Acq On : 20 Apr 2021 7:02 pm
 Operator : benk
 Sample : ic1785-5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 16:33:04 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 13:58:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.748	78	208516	5.04	ppb(v)	100
50) Carbon Tetrachloride	11.996	117	151248	4.96	ppb(v)	100
51) Cyclohexane	11.641	56	95754	4.63	ppb(v)	100
52) 2,3-Dimethylpentane	11.806	71	44328	5.34	ppb(v)	100
54) 2,2,4-Trimethylpentane	12.528	57	313888	4.78	ppb(v)	100
55) Heptane	12.699	71	66168	4.90	ppb(v)	100
56) Trichloroethene	13.764	97	62446	4.80	ppb(v)	100
57) 1,2-Dichloropropane	14.663	63	84367	5.05	ppb(v)	100
58) Dibromomethane	14.492	174	95098	4.81	ppb(v)	100
59) Ethyl Acrylate	14.651	55	158014	5.22	ppb(v)	100
60) Methyl Methacrylate	15.012	69	77059	5.29	ppb(v)	100
61) 1,4-Dioxane	15.098	88	48571	4.62	ppb(v)	100
62) Bromodichloromethane	14.767	83	158850	4.90	ppb(v)	100
63) cis-1,3-Dichloropropene	15.874	75	128219	4.66	ppb(v)	100
64) 4-Methyl-2-pentanone	16.951	58	67169	5.14	ppb(v)	100
65) trans-1,3-Dichloropropene	17.031	75	114732	4.58	ppb(v)	100
66) Toluene	16.315	91	243660	4.47	ppb(v)	100
67) 1,1,2-Trichloroethane	17.330	97	89579	4.83	ppb(v)	100
68) 1,3-Dichloropropane	17.838	76	120023	4.96	ppb(v)	100
69) 2-Hexanone	18.487	43	154580	4.71	ppb(v)	100
70) Ethyl Methacrylate	17.294	69	121914	5.17	ppb(v)	100
71) Dibromochloromethane	17.673	129	167674	5.01	ppb(v)	100
72) Tetrachloroethene	17.031	166	121331	4.79	ppb(v)	100
73) 1,2-Dibromoethane	18.132	107	142539	4.89	ppb(v)	100
74) Octane	15.978	43	168029	5.62	ppb(v)	100
75) 1,1,1,2-Tetrachloroethane	19.190	131	109486	4.95	ppb(v)	100
77) Chlorobenzene	19.092	112	189856	4.87	ppb(v)	100
78) Ethylbenzene	19.123	91	309701	4.91	ppb(v)	100
79) m,p-Xylene	19.374	91	464171	9.96	ppb(v)	100
80) Styrene	20.157	104	179133	5.16	ppb(v)	100
81) Nonane	18.946	43	172192	4.97	ppb(v)	100
82) o-Xylene	20.077	91	240386	5.04	ppb(v)	100
83) Bromoform	20.212	173	165582	5.33	ppb(v)	100
84) 1,1,2,2-Tetrachloroethane	21.240	83	208128	5.23	ppb(v)	100
85) 1,2,3-Trichloropropane	21.442	75	144923	5.00	ppb(v)	100
86) Isopropylbenzene	20.561	105	346658	5.36	ppb(v)	100
87) Bromobenzene	21.142	156	118471	5.65	ppb(v)	100
88) 2-Chlorotoluene	21.393	126	91298	5.72	ppb(v)	100
89) n-Propylbenzene	21.166	120	93316	5.59	ppb(v)	100
91) 4-Ethyltoluene	21.313	105	335265	5.56	ppb(v)	100
92) 1,3,5-Trimethylbenzene	21.429	105	270436	5.50	ppb(v)	100
93) alpha-Methylstyrene	21.772	118	142311	5.82	ppb(v)	100
94) tert-Butylbenzene	21.870	134	62888	5.72	ppb(v)	100
95) 1,2,4-Trimethylbenzene	21.955	105	263942	5.58	ppb(v)	100
96) 1,3-Dichlorobenzene	22.396	146	187794	5.89	ppb(v)	100
97) 1,2,3-trimethylbenzene	22.518	105	264529	5.62	ppb(v)	100
98) Benzyl Chloride	22.800	126	51258	5.92	ppb(v)	100
99) 1,4-Dichlorobenzene	22.506	146	182738	5.92	ppb(v)	100
100) sec-Butylbenzene	22.102	134	78370	5.57	ppb(v)	100
101) p-Isopropyltoluene	22.280	134	87136	5.79	ppb(v)	100
102) 1,2-Dichlorobenzene	23.026	146	180690	5.87	ppb(v)	100
103) n-Butylbenzene	22.806	134	75409	5.60	ppb(v)	100
104) Hexachloroethane	23.014	201	113652	5.97	ppb(v)	100
105) 1,2,4-Trichlorobenzene	24.831	180	81274	5.24	ppb(v)	100
106) Naphthalene	25.271	128	134589	4.89	ppb(v)	100
107) Hexachlorobutadiene	24.776	225	122199	5.60	ppb(v)	100
109) TVHC as equiv Pentane	6.478	TIC	606915	5.28	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43596.D
Acq On : 20 Apr 2021 7:02 pm
Operator : benk
Sample : ic1785-5
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 16:33:04 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 13:58:35 2021
Response via : Initial Calibration

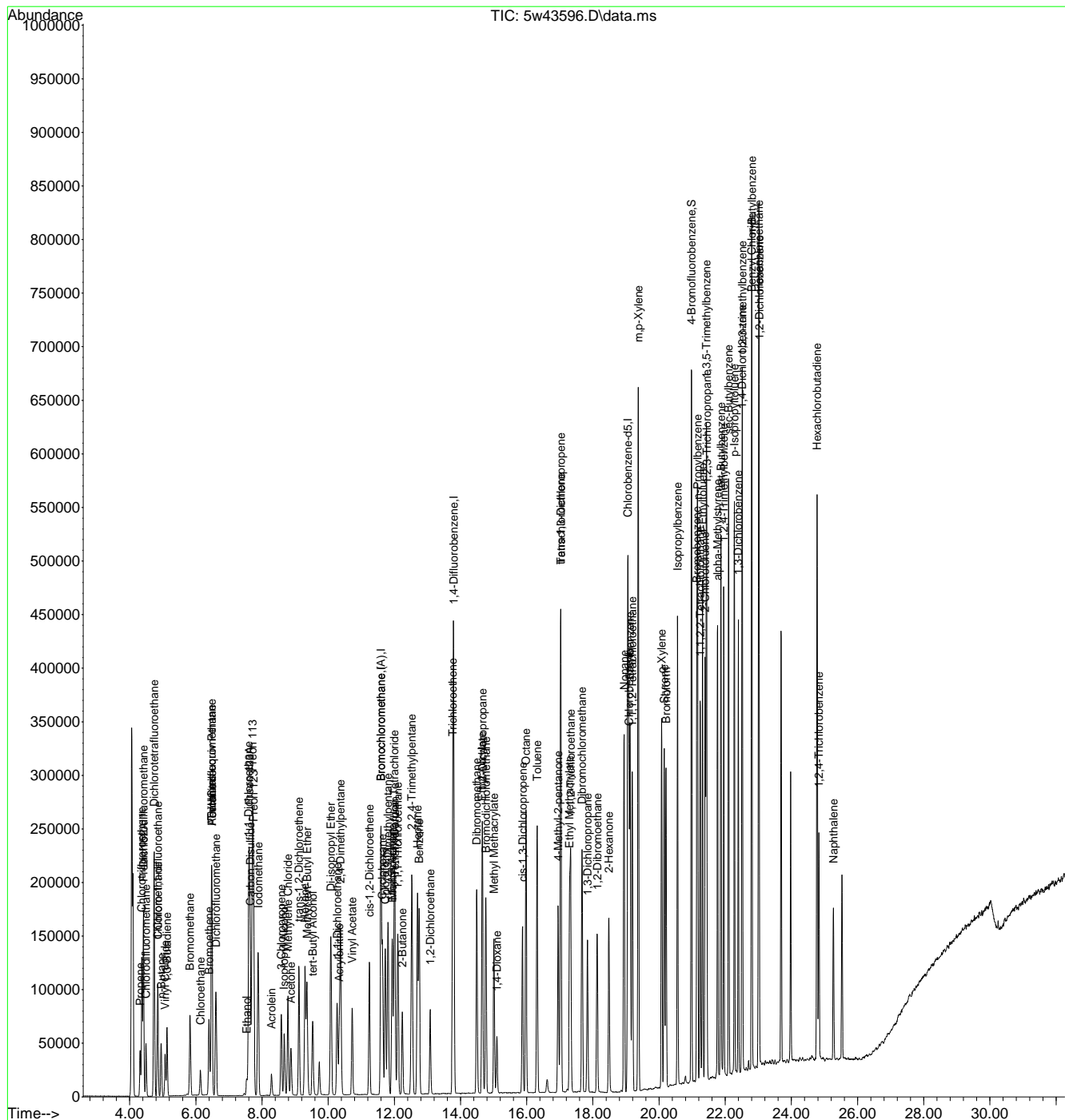
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43596.D
Acq On : 20 Apr 2021 7:02 pm
Operator : benk
Sample : ic1785-5
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 16:33:04 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 13:58:35 2021
Response via : Initial Calibration



7.7.15
7

Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43596.D Analyst approved: 04/21/21 16:37 Dana Tryon
Injection Time: 04/20/21 19:02 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		4.42	Poor instrument integration

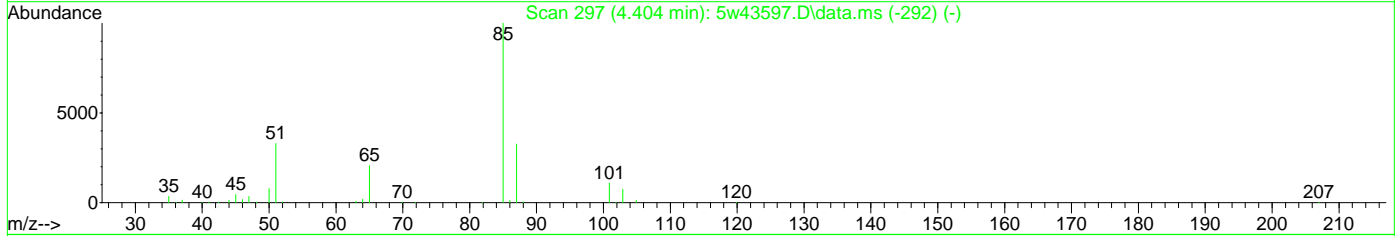
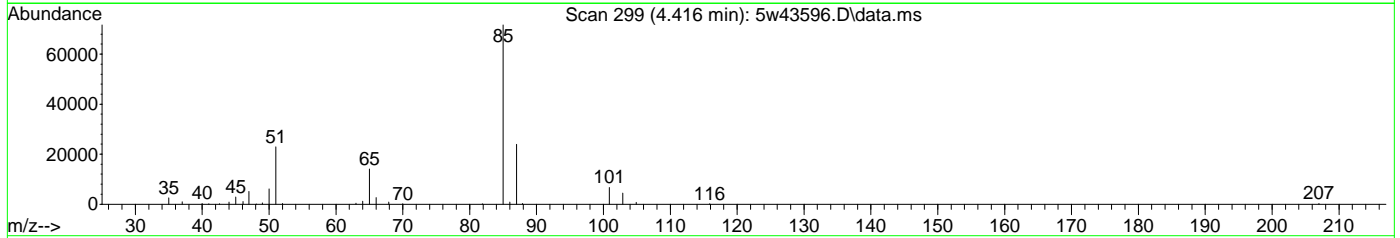
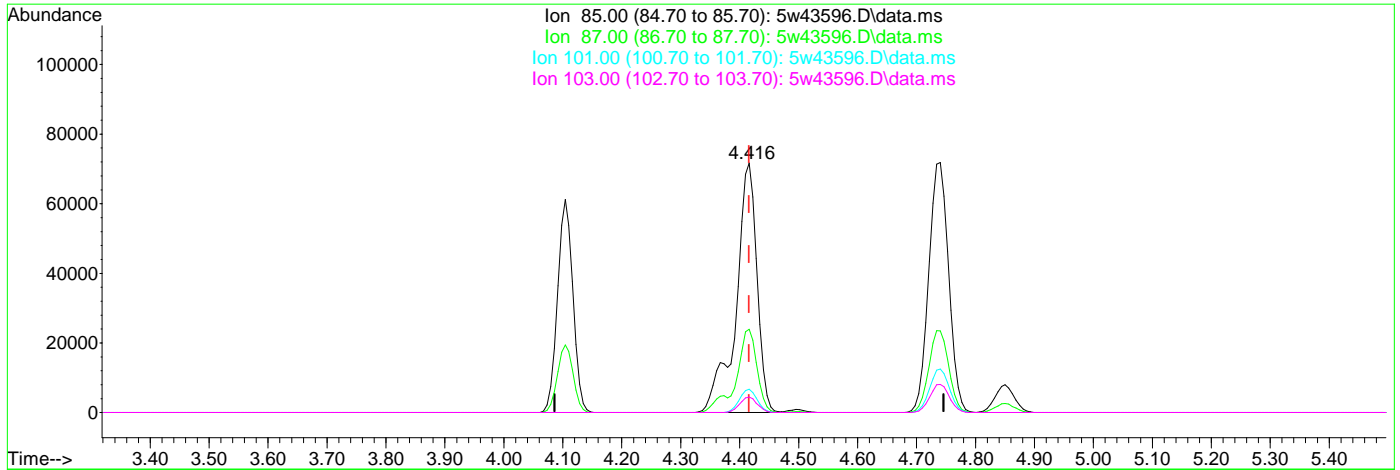
7.7.15.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43596.D
 Acq On : 20 Apr 2021 7:02 pm
 Operator : benk
 Sample : ic1785-5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 14:08:18 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 13:58:35 2021
 Response via : Initial Calibration



TIC: 5w43596.D\data.ms

(6) Dichlorodifluoromethane

4.416min (-0.000) 5.62ppb(v)

response 178471

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	33.38
101.00	9.30	9.33
103.00	6.20	6.20

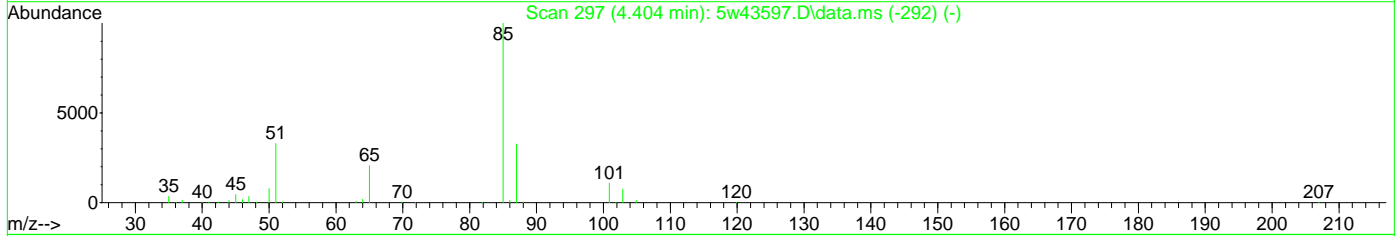
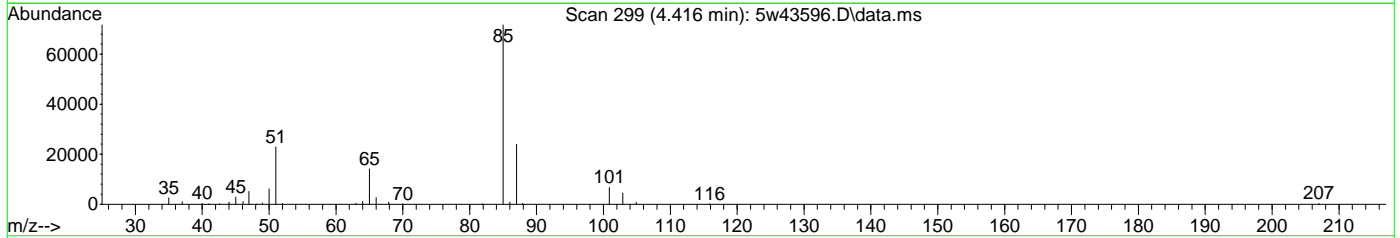
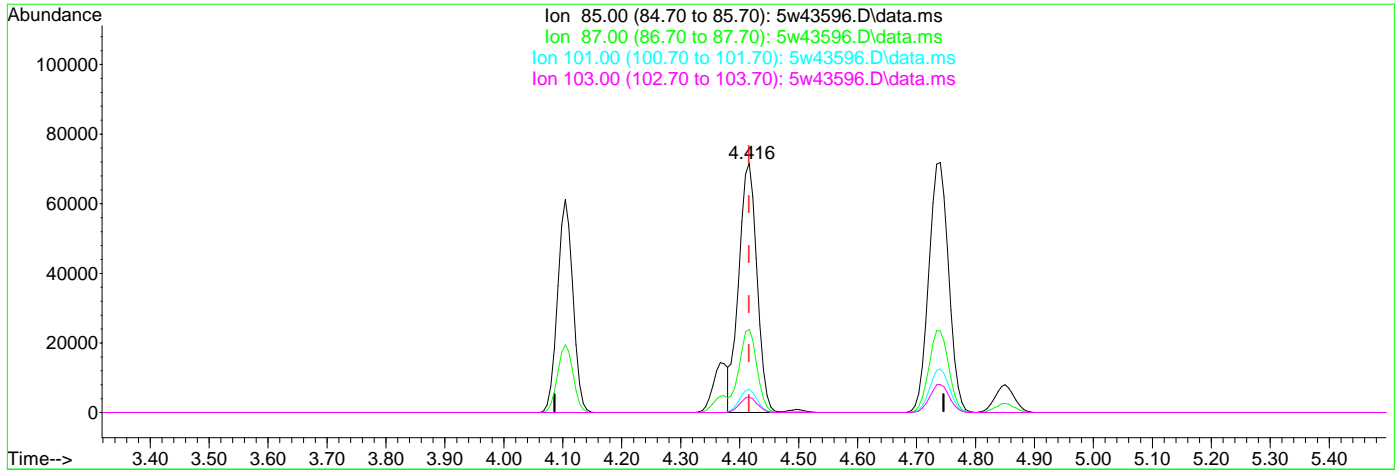
7.7.15.2

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43596.D
 Acq On : 20 Apr 2021 7:02 pm
 Operator : benk
 Sample : ic1785-5
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 14:08:18 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 13:58:35 2021
 Response via : Initial Calibration



TIC: 5w43596.D\data.ms

(6) Dichlorodifluoromethane

4.416min (-0.000) 4.83ppb(v) m

response 153429

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	33.38
101.00	9.30	9.33
103.00	6.20	6.20

7.7.15.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43597.D
 Acq On : 20 Apr 2021 7:52 pm
 Operator : benk
 Sample : icc1785-10
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:57:21 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:01 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.592	130	128085	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.795	114	438889	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.056	82	196550	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.592	130	128085	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.983	95	245171	4.78	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	47.80%#	
Target Compounds						
						Qvalue
2) Freon 152A	4.410	65	59812	8.77	ppb(v)	100
3) Chlorodifluoromethane	4.483	67	23349	8.80	ppb(v)	99
4) Propene	4.306	41	54717	8.79	ppb(v)	99
5) Chlorotrifluoroethene	4.361	116	174860	9.07	ppb(v#)	4
6) Dichlorodifluoromethane	4.404	85	278778	8.80	ppb(v)	99
7) 1-Chloro-1,1-difluoro...	4.844	65	174413	9.01	ppb(v)	100
8) Chloromethane	4.838	50	79486	8.88	ppb(v)	98
9) Dichlorotetrafluoroethane	4.728	85	313073	9.01	ppb(v)	99
10) Vinyl Chloride	5.065	62	102100	8.82	ppb(v)	99
11) 1,3-Butadiene	5.126	54	69811	8.84	ppb(v)	97
12) n-Butane	4.942	58	14463	8.97	ppb(v)	91
13) Bromomethane	5.817	94	131644	8.94	ppb(v)	98
14) Chloroethane	6.129	64	52630	8.78	ppb(v)	99
15) Dichlorofluoromethane	6.600	67	261549	8.81	ppb(v)	100
16) Acetonitrile	6.478	41	80281	8.46	ppb(v)	99
17) Freon 123	7.738	83	289120	9.04	ppb(v)	99
18) Freon 123A	7.610	117	158668	9.29	ppb(v)	95
19) Bromoethene	6.392	106	137757	9.09	ppb(v)	99
20) Acrolein	8.282	56	44640	8.66	ppb(v)	99
21) Trichlorofluoromethane	6.472	101	310205	8.96	ppb(v)	99
22) Acetone	8.870	58	46682	8.66	ppb(v)	95
23) Pentane	6.484	57	27493	8.63	ppb(v)	96
24) Iodomethane	7.879	142	425292	9.34	ppb(v)	99
25) Isopropyl Alcohol	8.668	43	30627	8.63	ppb(v)	96
26) 1,1-Dichloroethene	7.597	61	180617	9.09	ppb(v)	98
27) Freon 113	7.707	101	295769	9.17	ppb(v)	98
28) Methylene Chloride	8.778	84	114711	8.96	ppb(v)	96
29) Carbon Disulfide	7.640	76	351570	9.05	ppb(v)	100
30) Ethanol	7.530	45	45348	8.77	ppb(v)	99
31) Acrylonitrile	10.326	53	84427	8.57	ppb(v)	99
32) 3-Chloropropene	8.576	76	58626	8.75	ppb(v)	92
33) trans-1,2-Dichloroethene	9.114	61	161000	8.71	ppb(v)	97
34) tert-Butyl Alcohol	9.524	59	223331	8.75	ppb(v)	99
35) Methyl tert-Butyl Ether	9.353	73	313895	8.84	ppb(v)	99
36) Vinyl Acetate	10.723	43	270394	8.39	ppb(v)	96
37) 1,1-Dichloroethane	10.271	63	204982	8.59	ppb(v)	100
38) 2-Butanone	12.241	72	57058	8.67	ppb(v)	81
39) Hexane	9.298	56	91192	8.60	ppb(v)	98
40) cis-1,2-Dichloroethene	11.243	61	157761	8.51	ppb(v)	96
41) Di-isopropyl Ether	10.075	87	98354	8.96	ppb(v)	95
42) Ethyl Acetate	11.922	61	37154	8.51	ppb(v)	93
43) Methyl Acrylate	11.941	55	198754	8.38	ppb(v)	98
44) Chloroform	11.727	83	258197	8.61	ppb(v)	99
45) 2,4-Dimethylpentane	10.375	57	198317	8.53	ppb(v)	98
46) Tetrahydrofuran	12.014	72	59797	8.69	ppb(v)	92
47) 1,1,1-Trichloroethane	12.106	97	252743	8.81	ppb(v)	99
48) 1,2-Dichloroethane	13.085	62	137753	8.44	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43597.D
 Acq On : 20 Apr 2021 7:52 pm
 Operator : benk
 Sample : icc1785-10
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:57:21 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:01 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.748	78	376155	8.74	ppb(v)	99
50) Carbon Tetrachloride	11.996	117	284433	9.11	ppb(v)	98
51) Cyclohexane	11.641	56	166892	8.44	ppb(v)	98
52) 2,3-Dimethylpentane	11.806	71	79128	8.65	ppb(v)	97
54) 2,2,4-Trimethylpentane	12.528	57	531826	8.23	ppb(v)	99
55) Heptane	12.699	71	118539	8.71	ppb(v)	96
56) Trichloroethene	13.764	97	117994	9.18	ppb(v)	95
57) 1,2-Dichloropropane	14.663	63	147949	8.52	ppb(v)	97
58) Dibromomethane	14.492	174	197014	10.07	ppb(v)	92
59) Ethyl Acrylate	14.651	55	273655	8.42	ppb(v)	97
60) Methyl Methacrylate	15.012	69	141892	8.95	ppb(v)	93
61) 1,4-Dioxane	15.098	88	93597	9.36	ppb(v)	91
62) Bromodichloromethane	14.767	83	292089	8.94	ppb(v)	99
63) cis-1,3-Dichloropropene	15.875	75	238708	9.05	ppb(v)	97
64) 4-Methyl-2-pentanone	16.951	58	126521	9.15	ppb(v)	97
65) trans-1,3-Dichloropropene	17.031	75	213482	9.04	ppb(v)	98
66) Toluene	16.315	91	469938	9.37	ppb(v)	99
67) 1,1,2-Trichloroethane	17.331	97	180227	9.78	ppb(v)	98
68) 1,3-Dichloropropane	17.838	76	225201	9.12	ppb(v)	94
69) 2-Hexanone	18.481	43	294213	9.25	ppb(v)	98
70) Ethyl Methacrylate	17.294	69	240131	9.57	ppb(v)	98
71) Dibromochloromethane	17.673	129	349569	10.13	ppb(v)	100
72) Tetrachloroethene	17.031	166	257476	10.31	ppb(v)	98
73) 1,2-Dibromoethane	18.132	107	292205	9.96	ppb(v)	99
74) Octane	15.979	43	267220	7.73	ppb(v)	89
75) 1,1,1,2-Tetrachloroethane	19.190	131	227640	10.10	ppb(v)	98
77) Chlorobenzene	19.092	112	389216	9.96	ppb(v)	96
78) Ethylbenzene	19.129	91	607861	9.54	ppb(v)	98
79) m,p-Xylene	19.374	91	901596	9.44	ppb(v)	97
80) Styrene	20.157	104	351003	9.52	ppb(v)	98
81) Nonane	18.946	43	299684	8.46	ppb(v)	95
82) o-Xylene	20.077	91	458202	9.26	ppb(v)	99
83) Bromoform	20.212	173	332767	9.76	ppb(v)	100
84) 1,1,2,2-Tetrachloroethane	21.246	83	375991	8.78	ppb(v)	99
85) 1,2,3-Trichloropropane	21.442	75	265479	8.90	ppb(v)	98
86) Isopropylbenzene	20.561	105	647567	9.08	ppb(v)	99
87) Bromobenzene	21.142	156	236347	9.69	ppb(v)	92
88) 2-Chlorotoluene	21.393	126	172374	9.17	ppb(v)	98
89) n-Propylbenzene	21.166	120	180292	9.39	ppb(v)	89
91) 4-Ethyltoluene	21.319	105	628748	9.11	ppb(v)	99
92) 1,3,5-Trimethylbenzene	21.429	105	505276	9.08	ppb(v)	98
93) alpha-Methylstyrene	21.772	118	276205	9.43	ppb(v)	99
94) tert-Butylbenzene	21.870	134	121003	9.35	ppb(v)	94
95) 1,2,4-Trimethylbenzene	21.956	105	498762	9.18	ppb(v)	99
96) 1,3-Dichlorobenzene	22.396	146	364047	9.42	ppb(v)	99
97) 1,2,3-trimethylbenzene	22.518	105	490783	9.01	ppb(v)	100
98) Benzyl Chloride	22.800	126	101140	9.59	ppb(v)	89
99) 1,4-Dichlorobenzene	22.506	146	355547	9.45	ppb(v)	99
100) sec-Butylbenzene	22.102	134	149139	9.25	ppb(v)	95
101) p-Isopropyltoluene	22.280	134	166260	9.27	ppb(v)	97
102) 1,2-Dichlorobenzene	23.026	146	352028	9.47	ppb(v)	99
103) n-Butylbenzene	22.806	134	147294	9.49	ppb(v)	94
104) Hexachloroethane	23.014	201	222177	9.50	ppb(v)	96
105) 1,2,4-Trichlorobenzene	24.831	180	178136	10.65	ppb(v)	100
106) Naphthalene	25.271	128	298571	10.78	ppb(v)	99
107) Hexachlorobutadiene	24.776	225	241151	9.59	ppb(v)	98
109) TVHC as equiv Pentane	6.478	TIC	1103852	8.81	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43597.D
Acq On : 20 Apr 2021 7:52 pm
Operator : benk
Sample : icc1785-10
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:57:21 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 09:57:01 2021
Response via : Initial Calibration

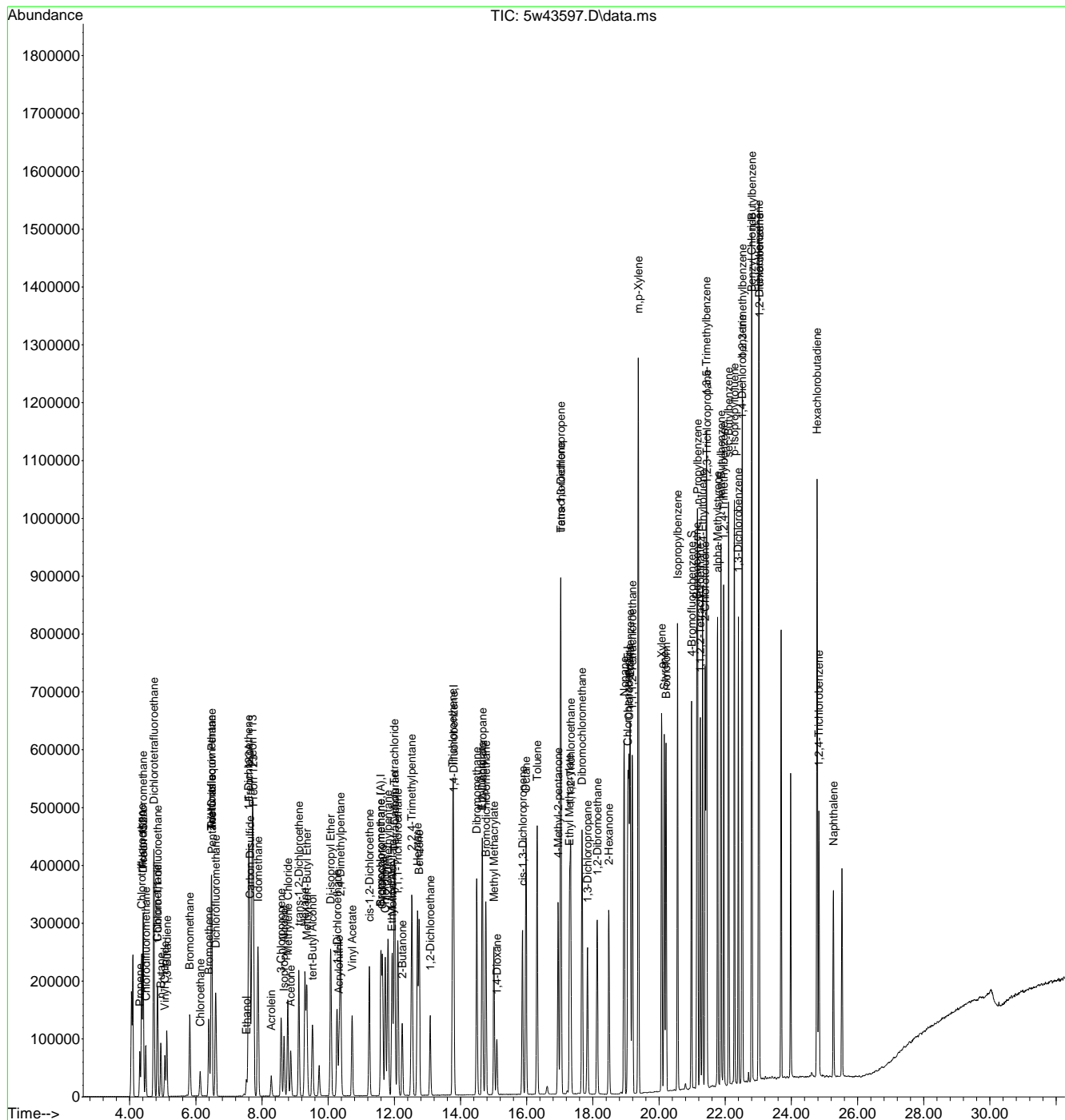
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43597.D
 Acq On : 20 Apr 2021 7:52 pm
 Operator : benk
 Sample : icc1785-10
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:57:21 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:01 2021
 Response via : Initial Calibration



7.7.16
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43598.D
 Acq On : 20 Apr 2021 8:42 pm
 Operator : benk
 Sample : ic1785-20
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:58:23 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.598	130	128439	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.794	114	443239	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.062	82	185970	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.598	130	128439	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.983	95	248529	6.93	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	69.30%	
Target Compounds						
						Qvalue
2) Freon 152A	4.422	65	116080	18.09	ppb(v)	99
3) Chlorodifluoromethane	4.496	67	45751	18.29	ppb(v)	99
4) Propene	4.318	41	108508	18.51	ppb(v)	99
5) Chlorotrifluoroethene	4.373	116	343907	18.66	ppb(v)	99
6) Dichlorodifluoromethane	4.416	85	546664m	18.31	ppb(v)	
7) 1-Chloro-1,1-difluoro...	4.850	65	336875	18.26	ppb(v)	100
8) Chloromethane	4.850	50	151137	17.84	ppb(v)	99
9) Dichlorotetrafluoroethane	4.740	85	599720	18.11	ppb(v)	99
10) Vinyl Chloride	5.077	62	197472	18.08	ppb(v)	99
11) 1,3-Butadiene	5.132	54	133180	17.86	ppb(v)	98
12) n-Butane	4.954	58	27873	18.18	ppb(v)	95
13) Bromomethane	5.829	94	254835	18.22	ppb(v)	98
14) Chloroethane	6.141	64	102501	18.16	ppb(v)	99
15) Dichlorofluoromethane	6.612	67	519905	18.57	ppb(v)	100
16) Acetonitrile	6.490	41	157588	17.94	ppb(v)	97
17) Freon 123	7.744	83	540624	17.71	ppb(v)	98
18) Freon 123A	7.622	117	303472	18.37	ppb(v)	94
19) Bromoethene	6.404	106	266553	18.38	ppb(v)	99
20) Acrolein	8.289	56	88599	18.38	ppb(v)	100
21) Trichlorofluoromethane	6.478	101	612335	18.61	ppb(v)	99
22) Acetone	8.876	58	92261	18.29	ppb(v)	96
23) Pentane	6.490	57	54328	18.26	ppb(v)	96
24) Iodomethane	7.885	142	815272	18.46	ppb(v)	100
25) Isopropyl Alcohol	8.680	43	61080	18.43	ppb(v)	96
26) 1,1-Dichloroethene	7.603	61	344783	18.13	ppb(v)	98
27) Freon 113	7.713	101	561488	18.12	ppb(v)	98
28) Methylene Chloride	8.790	84	223525	18.37	ppb(v)	97
29) Carbon Disulfide	7.646	76	664113	17.90	ppb(v)	100
30) Ethanol	7.542	45	89390	18.37	ppb(v)	99
31) Acrylonitrile	10.332	53	168767	18.40	ppb(v)	99
32) 3-Chloropropene	8.588	76	116659	18.52	ppb(v)	94
33) trans-1,2-Dichloroethene	9.121	61	314156	18.12	ppb(v)	97
34) tert-Butyl Alcohol	9.537	59	448503	18.69	ppb(v)	99
35) Methyl tert-Butyl Ether	9.359	73	618264	18.43	ppb(v)	99
36) Vinyl Acetate	10.729	43	560735	18.87	ppb(v)	97
37) 1,1-Dichloroethane	10.277	63	402493	18.09	ppb(v)	99
38) 2-Butanone	12.241	72	113844	18.48	ppb(v)	91
39) Hexane	9.304	56	178555	18.06	ppb(v)	98
40) cis-1,2-Dichloroethene	11.249	61	312821	18.18	ppb(v)	96
41) Di-isopropyl Ether	10.087	87	192558	18.45	ppb(v)	98
42) Ethyl Acetate	11.929	61	74971	18.50	ppb(v)	97
43) Methyl Acrylate	11.947	55	403593	18.47	ppb(v)	98
44) Chloroform	11.733	83	505150	18.05	ppb(v)	99
45) 2,4-Dimethylpentane	10.375	57	389672	18.04	ppb(v)	99
46) Tetrahydrofuran	12.020	72	118546	18.38	ppb(v)	93
47) 1,1,1-Trichloroethane	12.112	97	492032	18.18	ppb(v)	100
48) 1,2-Dichloroethane	13.091	62	274293	18.17	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43598.D
 Acq On : 20 Apr 2021 8:42 pm
 Operator : benk
 Sample : ic1785-20
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:58:23 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.754	78	743909	18.40	ppb(v)	99
50) Carbon Tetrachloride	12.002	117	555099	18.56	ppb(v)	98
51) Cyclohexane	11.647	56	333336	18.24	ppb(v)	98
52) 2,3-Dimethylpentane	11.812	71	155375	18.16	ppb(v)	97
54) 2,2,4-Trimethylpentane	12.534	57	1047817	17.62	ppb(v)	99
55) Heptane	12.705	71	233471	18.15	ppb(v)	98
56) Trichloroethene	13.770	97	232416	18.67	ppb(v)	96
57) 1,2-Dichloropropane	14.669	63	285511	17.58	ppb(v)	97
58) Dibromomethane	14.498	174	383277	19.33	ppb(v)	89
59) Ethyl Acrylate	14.657	55	526221	17.40	ppb(v)	97
60) Methyl Methacrylate	15.012	69	276340	18.21	ppb(v)	91
61) 1,4-Dioxane	15.098	88	178668	18.28	ppb(v)	92
62) Bromodichloromethane	14.767	83	562567	18.00	ppb(v)	99
63) cis-1,3-Dichloropropene	15.874	75	455331	17.94	ppb(v)	97
64) 4-Methyl-2-pentanone	16.957	58	239779	17.94	ppb(v)	91
65) trans-1,3-Dichloropropene	17.037	75	409716	18.05	ppb(v)	97
66) Toluene	16.321	91	917429	18.70	ppb(v)	99
67) 1,1,2-Trichloroethane	17.330	97	340160	18.48	ppb(v)	96
68) 1,3-Dichloropropane	17.838	76	409724	17.18	ppb(v)	91
69) 2-Hexanone	18.487	43	499901	16.17	ppb(v)#	92
70) Ethyl Methacrylate	17.300	69	428293	17.27	ppb(v)	94
71) Dibromochloromethane	17.679	129	670405	19.11	ppb(v)	100
72) Tetrachloroethene	17.037	166	520306	20.32	ppb(v)	98
73) 1,2-Dibromoethane	18.132	107	548470	18.55	ppb(v)	99
74) Octane	15.985	43	493225	15.93	ppb(v)	87
75) 1,1,1,2-Tetrachloroethane	19.196	131	442554	19.35	ppb(v)	98
77) Chlorobenzene	19.092	112	752433	20.39	ppb(v)	94
78) Ethylbenzene	19.129	91	1133957	19.25	ppb(v)	97
79) m,p-Xylene	19.380	91	1664809	18.95	ppb(v)	96
80) Styrene	20.157	104	688746	20.23	ppb(v)	97
81) Nonane	18.952	43	461281	14.91	ppb(v)#	89
82) o-Xylene	20.083	91	860040	19.08	ppb(v)	98
83) Bromoform	20.212	173	696399	21.85	ppb(v)	99
84) 1,1,2,2-Tetrachloroethane	21.246	83	709581	18.65	ppb(v)	99
85) 1,2,3-Trichloropropane	21.448	75	491372	18.42	ppb(v)	95
86) Isopropylbenzene	20.561	105	1239365	19.25	ppb(v)	99
87) Bromobenzene	21.148	156	463283	20.39	ppb(v)	87
88) 2-Chlorotoluene	21.399	126	336071	19.72	ppb(v)	93
89) n-Propylbenzene	21.166	120	351910	19.98	ppb(v)	86
91) 4-Ethyltoluene	21.319	105	1205733	19.33	ppb(v)	99
92) 1,3,5-Trimethylbenzene	21.429	105	970218	19.31	ppb(v)	98
93) alpha-Methylstyrene	21.772	118	536803	19.94	ppb(v)	99
94) tert-Butylbenzene	21.876	134	234819	19.82	ppb(v)	91
95) 1,2,4-Trimethylbenzene	21.962	105	952724	19.33	ppb(v)	98
96) 1,3-Dichlorobenzene	22.402	146	715633	20.15	ppb(v)	98
97) 1,2,3-trimethylbenzene	22.524	105	940720	19.21	ppb(v)	99
98) Benzyl Chloride	22.800	126	194107	19.86	ppb(v)	70
99) 1,4-Dichlorobenzene	22.506	146	693832	20.04	ppb(v)	99
100) sec-Butylbenzene	22.108	134	291627	19.86	ppb(v)	88
101) p-Isopropyltoluene	22.280	134	321115	19.64	ppb(v)	98
102) 1,2-Dichlorobenzene	23.026	146	675605	19.73	ppb(v)	99
103) n-Butylbenzene	22.806	134	285688	19.96	ppb(v)	96
104) Hexachloroethane	23.014	201	437426	20.27	ppb(v)	97
105) 1,2,4-Trichlorobenzene	24.831	180	379469	23.22	ppb(v)	99
106) Naphthalene	25.271	128	636602	23.38	ppb(v)	99
107) Hexachlorobutadiene	24.782	225	488212	20.95	ppb(v)	99
109) TVHC as equiv Pentane	6.484	TIC	2201827	18.64	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43598.D
Acq On : 20 Apr 2021 8:42 pm
Operator : benk
Sample : ic1785-20
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:58:23 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 09:57:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

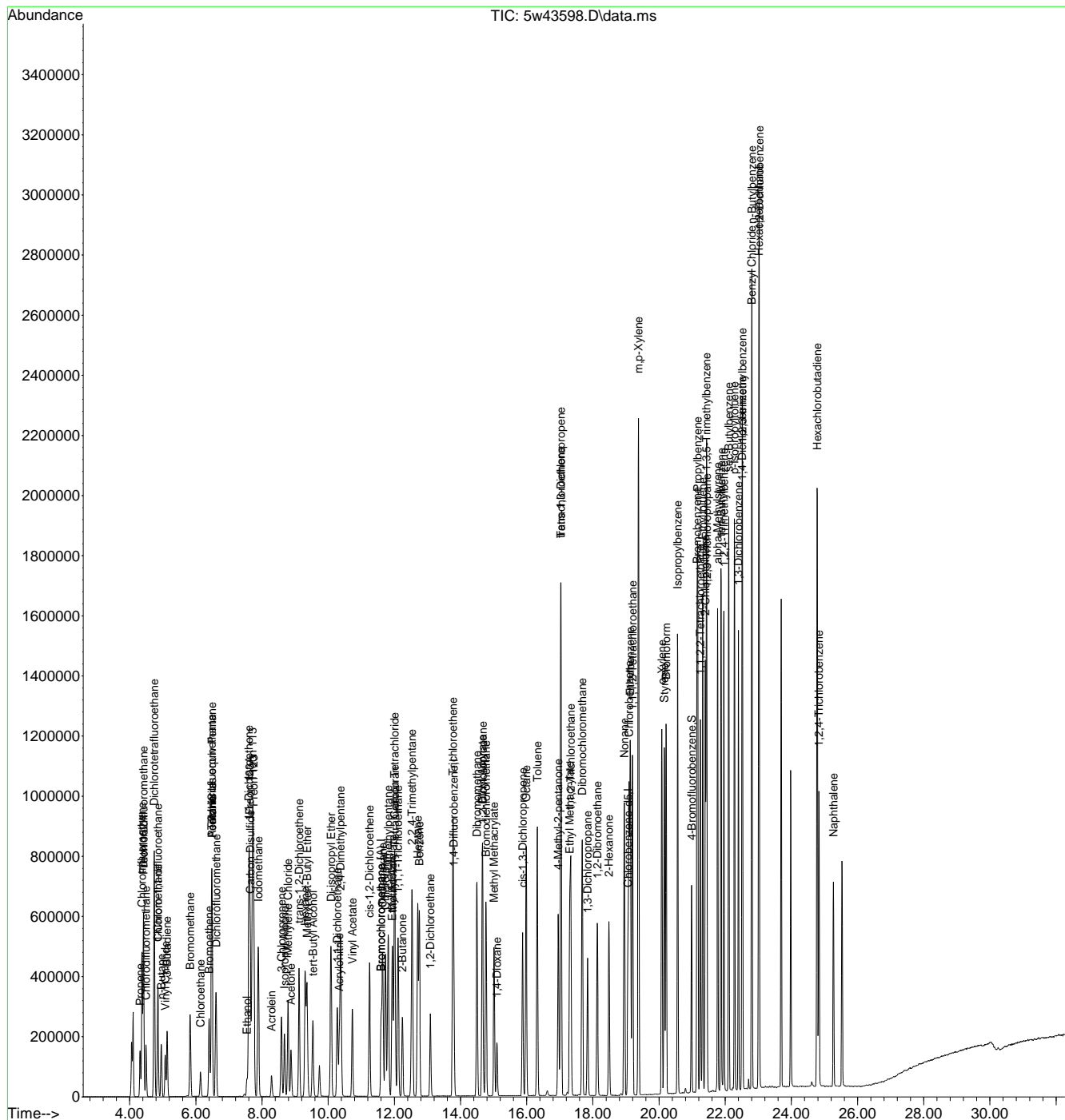
7.7.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43598.D
 Acq On : 20 Apr 2021 8:42 pm
 Operator : benk
 Sample : ic1785-20
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:58:23 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:47 2021
 Response via : Initial Calibration



7.7.17
7

Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43598.D Analyst approved: 04/21/21 14:25 Dana Tryon
Injection Time: 04/20/21 20:42 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		4.42	Poor instrument integration

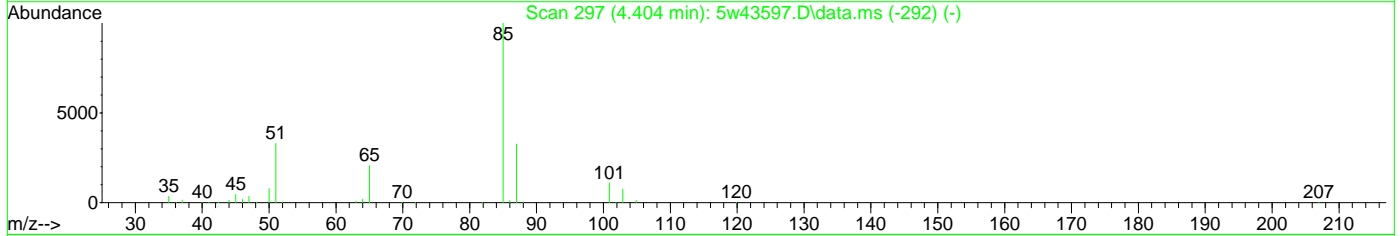
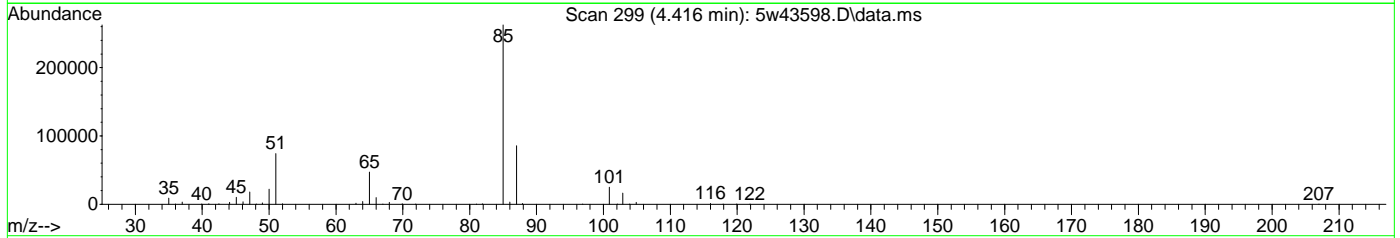
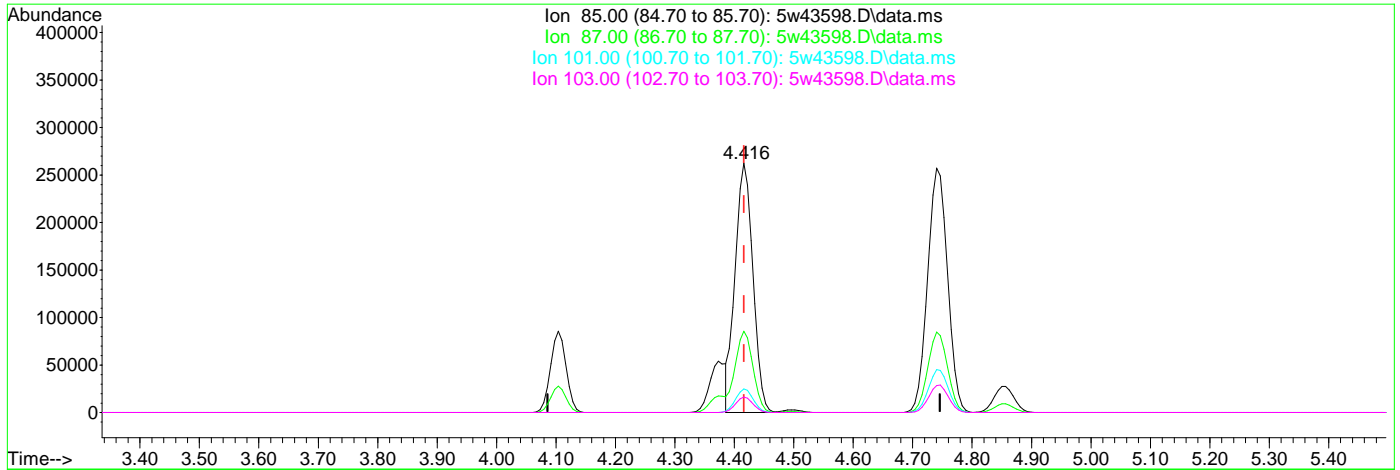
7.7.17.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43598.D
 Acq On : 20 Apr 2021 8:42 pm
 Operator : benk
 Sample : ic1785-20
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:58:23 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:57:47 2021
 Response via : Initial Calibration



TIC: 5w43598.D\data.ms

(6) Dichlorodifluoromethane

4.416min (+0.000) 18.31ppb(v) m

response 546664

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	32.64
101.00	9.30	9.53
103.00	6.20	6.20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43599.D
 Acq On : 20 Apr 2021 9:36 pm
 Operator : benk
 Sample : ic1785-40
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:59:16 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:58:38 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.598	130	124108	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.794	114	422952	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.062	82	179598	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.598	130	124108	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.983	95	242087	8.93	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	89.30%	
Target Compounds						
						Qvalue
2) Freon 152A	4.422	65	221763	36.94	ppb(v)	97
3) Chlorodifluoromethane	4.496	67	89472	38.11	ppb(v)	100
4) Propene	4.312	41	211895	38.36	ppb(v)	98
5) Chlorotrifluoroethene	4.373	116	666826	38.30	ppb(v)	98
6) Dichlorodifluoromethane	4.416	85	1072239m	38.24	ppb(v)	
7) 1-Chloro-1,1-difluoro...	4.850	65	646810	37.37	ppb(v)	99
8) Chloromethane	4.844	50	281998	35.74	ppb(v)	99
9) Dichlorotetrafluoroethane	4.740	85	1138987	36.75	ppb(v)	98
10) Vinyl Chloride	5.071	62	378924	37.09	ppb(v)	99
11) 1,3-Butadiene	5.132	54	235137	33.84	ppb(v)	96
12) n-Butane	4.954	58	54840	38.17	ppb(v)	96
13) Bromomethane	5.823	94	483277	36.85	ppb(v)	98
14) Chloroethane	6.135	64	192395	36.39	ppb(v)	99
15) Dichlorofluoromethane	6.606	67	983582	37.24	ppb(v)	99
16) Acetonitrile	6.484	41	280693	34.25	ppb(v)	99
17) Freon 123	7.744	83	983029	34.65	ppb(v)	99
18) Freon 123A	7.616	117	583019	37.54	ppb(v)	91
19) Bromoethene	6.398	106	515365	37.80	ppb(v)	99
20) Acrolein	8.289	56	167124	36.87	ppb(v)	99
21) Trichlorofluoromethane	6.478	101	1156320	37.23	ppb(v)	99
22) Acetone	8.876	58	176261	37.23	ppb(v)	96
23) Pentane	6.484	57	97193	34.81	ppb(v)	94
24) Iodomethane	7.885	142	1511829	36.36	ppb(v)	98
25) Isopropyl Alcohol	8.680	43	112605	36.10	ppb(v)	96
26) 1,1-Dichloroethene	7.603	61	640988	36.00	ppb(v)	97
27) Freon 113	7.713	101	1027701	35.43	ppb(v)	96
28) Methylene Chloride	8.784	84	417028	36.46	ppb(v)	97
29) Carbon Disulfide	7.646	76	1245026	35.99	ppb(v)	99
30) Ethanol	7.542	45	168696	36.88	ppb(v)	99
31) Acrylonitrile	10.332	53	312841	36.26	ppb(v)	100
32) 3-Chloropropene	8.582	76	220563	37.15	ppb(v)	93
33) trans-1,2-Dichloroethene	9.121	61	594993	36.67	ppb(v)	95
34) tert-Butyl Alcohol	9.537	59	831258	36.65	ppb(v)	99
35) Methyl tert-Butyl Ether	9.353	73	1163294	36.85	ppb(v)	99
36) Vinyl Acetate	10.730	43	1001998	35.56	ppb(v)	96
37) 1,1-Dichloroethane	10.277	63	739038	35.51	ppb(v)	98
38) 2-Butanone	12.241	72	212204	36.57	ppb(v)	81
39) Hexane	9.304	56	331178	35.82	ppb(v)	98
40) cis-1,2-Dichloroethene	11.250	61	571911	35.47	ppb(v)	95
41) Di-isopropyl Ether	10.081	87	364167	37.07	ppb(v)	91
42) Ethyl Acetate	11.929	61	136921	35.86	ppb(v)	89
43) Methyl Acrylate	11.947	55	737957	35.86	ppb(v)	97
44) Chloroform	11.733	83	941378	35.98	ppb(v)	99
45) 2,4-Dimethylpentane	10.381	57	714985	35.42	ppb(v)	98
46) Tetrahydrofuran	12.020	72	212084	34.98	ppb(v)	88
47) 1,1,1-Trichloroethane	12.112	97	918190	36.21	ppb(v)	99
48) 1,2-Dichloroethane	13.091	62	500859	35.42	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43599.D
 Acq On : 20 Apr 2021 9:36 pm
 Operator : benk
 Sample : ic1785-40
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:59:16 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:58:38 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.754	78	1362653	35.83	ppb(v)	99
50) Carbon Tetrachloride	12.002	117	1049748	37.21	ppb(v)	98
51) Cyclohexane	11.647	56	616443	35.96	ppb(v)	96
52) 2,3-Dimethylpentane	11.818	71	288814	36.04	ppb(v)	95
54) 2,2,4-Trimethylpentane	12.534	57	1875239	34.41	ppb(v)	99
55) Heptane	12.706	71	427611	35.95	ppb(v)	95
56) Trichloroethene	13.770	97	429275	36.96	ppb(v)	93
57) 1,2-Dichloropropane	14.669	63	504179	33.90	ppb(v)	95
58) Dibromomethane	14.498	174	753979	40.30	ppb(v)	83
59) Ethyl Acrylate	14.657	55	915953	33.18	ppb(v#)	95
60) Methyl Methacrylate	15.018	69	498536	35.49	ppb(v)	85
61) 1,4-Dioxane	15.098	88	332601	36.72	ppb(v)	90
62) Bromodichloromethane	14.767	83	1052572	36.51	ppb(v)	98
63) cis-1,3-Dichloropropene	15.875	75	835507	35.73	ppb(v)	96
64) 4-Methyl-2-pentanone	16.957	58	423944	34.42	ppb(v)	84
65) trans-1,3-Dichloropropene	17.037	75	722105	34.45	ppb(v)	95
66) Toluene	16.321	91	1700456	37.13	ppb(v)	98
67) 1,1,2-Trichloroethane	17.337	97	639733	37.37	ppb(v)	95
68) 1,3-Dichloropropane	17.844	76	754616	34.80	ppb(v)	91
69) 2-Hexanone	18.487	43	841988	30.48	ppb(v#)	88
70) Ethyl Methacrylate	17.306	69	781993	34.63	ppb(v#)	87
71) Dibromochloromethane	17.679	129	1264496	38.35	ppb(v)	100
72) Tetrachloroethene	17.037	166	1033877	42.08	ppb(v)	98
73) 1,2-Dibromoethane	18.138	107	1021477	37.10	ppb(v)	99
74) Octane	15.991	43	832458	30.23	ppb(v#)	79
75) 1,1,1,2-Tetrachloroethane	19.203	131	837412	38.79	ppb(v)	97
77) Chlorobenzene	19.099	112	1405155	39.18	ppb(v)	93
78) Ethylbenzene	19.135	91	2084858	37.11	ppb(v)	95
79) m,p-Xylene	19.386	91	2950212	35.39	ppb(v)	97
80) Styrene	20.163	104	1300284	39.39	ppb(v)	97
81) Nonane	18.952	43	811329	29.67	ppb(v#)	88
82) o-Xylene	20.090	91	1618946	37.76	ppb(v)	98
83) Bromoform	20.218	173	1332239	41.99	ppb(v)	98
84) 1,1,2,2-Tetrachloroethane	21.246	83	1288473	35.87	ppb(v)	100
85) 1,2,3-Trichloropropane	21.448	75	850299	33.90	ppb(v)	94
86) Isopropylbenzene	20.567	105	2294301	37.36	ppb(v)	98
87) Bromobenzene	21.148	156	879481	39.83	ppb(v)	85
88) 2-Chlorotoluene	21.399	126	621235	37.92	ppb(v)	93
89) n-Propylbenzene	21.172	120	648677	38.14	ppb(v)	80
91) 4-Ethyltoluene	21.325	105	2193234	36.81	ppb(v)	98
92) 1,3,5-Trimethylbenzene	21.436	105	1714292	35.74	ppb(v)	98
93) alpha-Methylstyrene	21.772	118	1010530	38.90	ppb(v)	99
94) tert-Butylbenzene	21.876	134	440577	38.62	ppb(v)	91
95) 1,2,4-Trimethylbenzene	21.962	105	1755275	37.29	ppb(v)	99
96) 1,3-Dichlorobenzene	22.402	146	1353631	39.37	ppb(v)	99
97) 1,2,3-trimethylbenzene	22.524	105	1705005	36.53	ppb(v)	100
98) Benzyl Chloride	22.800	126	349809	37.14	ppb(v)	50
99) 1,4-Dichlorobenzene	22.512	146	1266988	37.87	ppb(v)	99
100) sec-Butylbenzene	22.108	134	536373	37.91	ppb(v)	86
101) p-Isopropyltoluene	22.286	134	598281	38.12	ppb(v)	92
102) 1,2-Dichlorobenzene	23.032	146	1188137	36.09	ppb(v)	98
103) n-Butylbenzene	22.812	134	514074	37.22	ppb(v)	71
104) Hexachloroethane	23.020	201	799550	38.20	ppb(v)	83
105) 1,2,4-Trichlorobenzene	24.831	180	810638	48.75	ppb(v)	98
106) Naphthalene	25.271	128	1407136	50.66	ppb(v)	99
107) Hexachlorobutadiene	24.782	225	958581	41.93	ppb(v)	99
109) TVHC as equiv Pentane	6.478	TIC	4026958	36.09	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43599.D
Acq On : 20 Apr 2021 9:36 pm
Operator : benk
Sample : ic1785-40
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:59:16 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 09:58:38 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

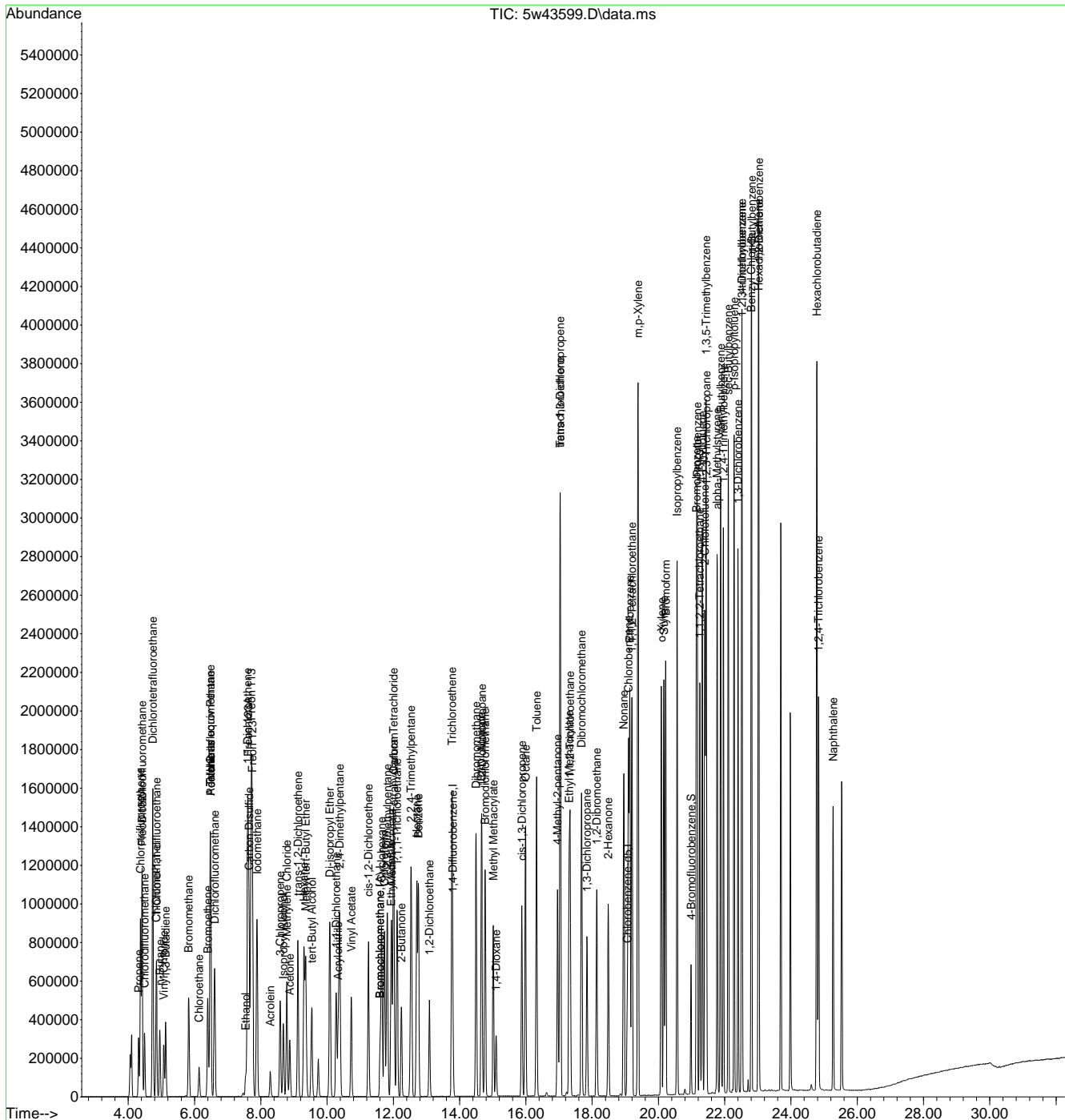
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43599.D
 Acq On : 20 Apr 2021 9:36 pm
 Operator : benk
 Sample : ic1785-40
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:59:16 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:58:38 2021
 Response via : Initial Calibration



7.7.18
7

Manual Integration Approval Summary

Sample Number: V5W1785-IC1785 Method: TO-15
Lab FileID: 5W43599.D Analyst approved: 04/21/21 14:25 Dana Tryon
Injection Time: 04/20/21 21:36 Supervisor approved: 04/26/21 11:02 Dana Tryon

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		4.42	Poor instrument integration

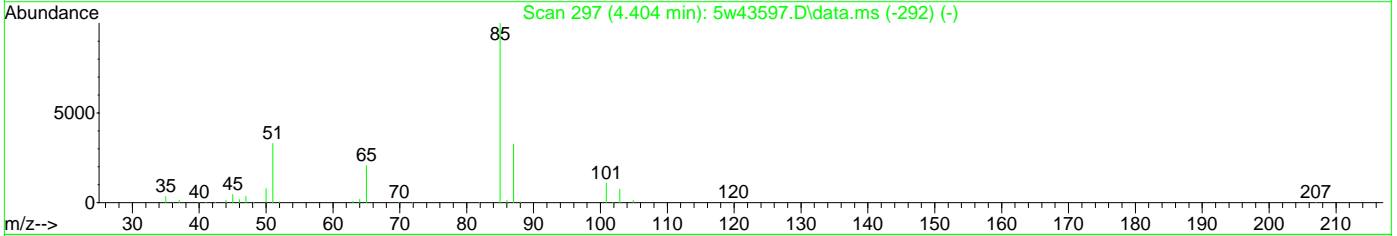
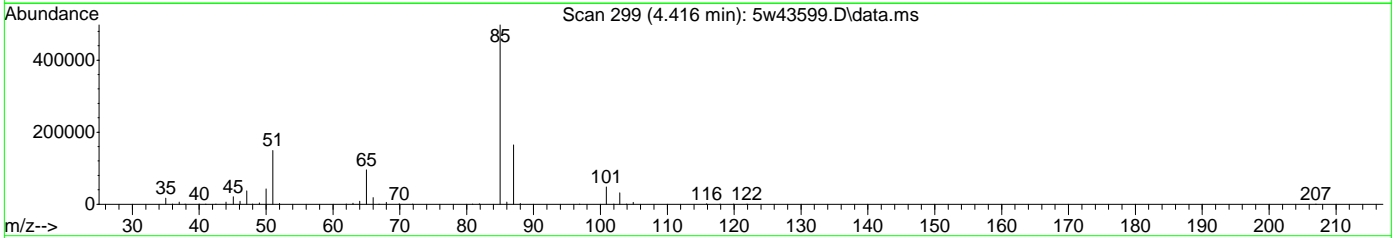
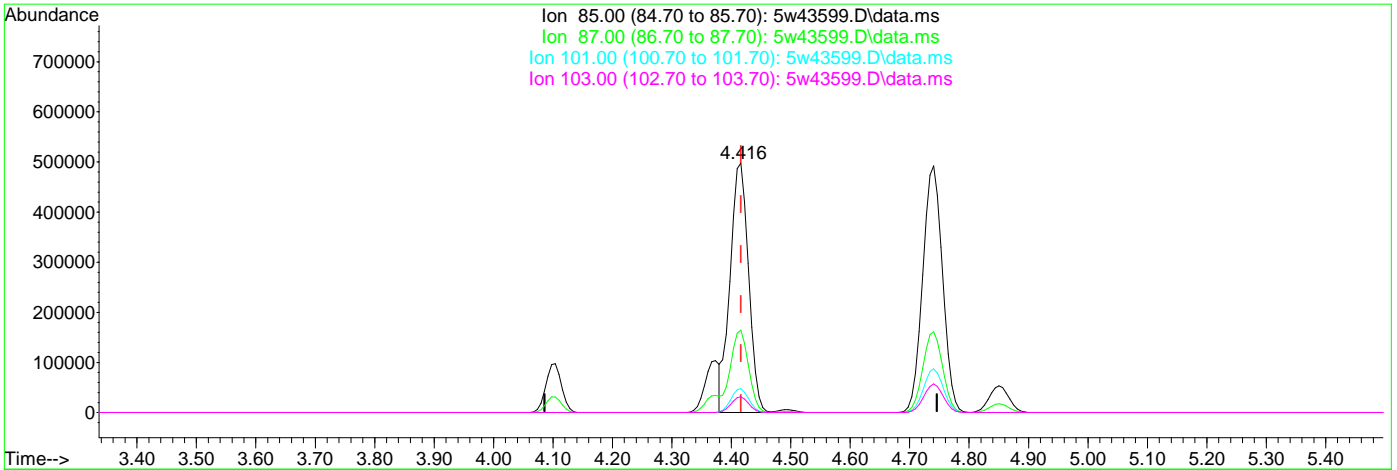
7.7.18.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
 Data File : 5w43599.D
 Acq On : 20 Apr 2021 9:36 pm
 Operator : benk
 Sample : ic1785-40
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 21 09:59:16 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 09:58:38 2021
 Response via : Initial Calibration



TIC: 5w43599.D\data.ms

(6) Dichlorodifluoromethane

4.416min (+0.000) 38.24ppb(v) m

response 1072239

Ion	Exp%	Act%
85.00	100	100
87.00	33.40	33.04
101.00	9.30	9.55
103.00	6.20	6.31

7.7.18.2
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43603.D
 Acq On : 21 Apr 2021 11:17 am
 Operator : benk
 Sample : icv1785-10
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 21 16:34:47 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.592	130	133904	10.00	ppb(v)	0.00
53) 1,4-Difluorobenzene	13.788	114	452495	10.00	ppb(v)	0.00
76) Chlorobenzene-d5	19.056	82	199988	10.00	ppb(v)	0.00
108) Bromochloromethane (A)	11.592	130	133904	10.00	ppb(v)	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.977	95	261485	10.57	ppb(v)	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	105.70%	
Target Compounds						
						Qvalue
2) Freon 152A	4.416	65	67216	9.83	ppb(v)	100
3) Chlorodifluoromethane	4.489	67	26266	10.66	ppb(v)	98
4) Propene	4.306	41	62575	9.45	ppb(v)	99
5) Chlorotrifluoroethene	4.361	116	197056	9.35	ppb(v)	95
6) Dichlorodifluoromethane	4.410	85	303828	8.87	ppb(v)	100
7) 1-Chloro-1,1-difluoro...	4.844	65	197228	9.36	ppb(v)	100
8) Chloromethane	4.838	50	87994	9.04	ppb(v)	99
9) Dichlorotetrafluoroethane	4.728	85	335548	8.85	ppb(v)	98
10) Vinyl Chloride	5.064	62	113997	9.38	ppb(v)	98
11) 1,3-Butadiene	5.126	54	77619	9.61	ppb(v)	97
12) n-Butane	4.948	58	16201	10.74	ppb(v)	100
13) Bromomethane	5.817	94	141399	8.25	ppb(v)	98
14) Chloroethane	6.129	64	60070	9.53	ppb(v)	98
15) Dichlorofluoromethane	6.600	67	284158	8.50	ppb(v)	100
16) Acetonitrile	6.478	41	96113	9.64	ppb(v)	96
17) Freon 123	7.738	83	327098	9.17	ppb(v)	98
18) Freon 123A	7.609	117	187189	10.10	ppb(v)	99
19) Bromoethene	6.392	106	152904	9.31	ppb(v)	98
20) Acrolein	8.282	56	50239	9.13	ppb(v)	99
21) Trichlorofluoromethane	6.465	101	331672	8.63	ppb(v)	98
22) Acetone	8.870	58	51788	8.86	ppb(v)	99
23) Pentane	6.478	57	32529	9.72	ppb(v)	96
24) Iodomethane	7.872	142	440289	8.86	ppb(v)	100
25) Isopropyl Alcohol	8.668	43	32985	8.35	ppb(v)	99
26) 1,1-Dichloroethene	7.591	61	206559	9.37	ppb(v)	99
27) Freon 113	7.701	101	317139	8.95	ppb(v)	97
28) Methylene Chloride	8.778	84	123736	8.14	ppb(v)	98
29) Carbon Disulfide	7.634	76	420407	9.67	ppb(v)	99
30) Ethanol	7.530	45	42719	7.49	ppb(v)	99
31) Acrylonitrile	10.326	53	90376	8.13	ppb(v)	100
32) 3-Chloropropene	8.576	76	64751	9.58	ppb(v)	98
33) trans-1,2-Dichloroethene	9.108	61	183030	8.86	ppb(v)	99
34) tert-Butyl Alcohol	9.524	59	211539	7.31	ppb(v)	99
35) Methyl tert-Butyl Ether	9.347	73	335491	7.96	ppb(v)	99
36) Vinyl Acetate	10.717	43	300143	8.26	ppb(v)	98
37) 1,1-Dichloroethane	10.264	63	221027	8.34	ppb(v)	99
38) 2-Butanone	12.234	72	58683	9.76	ppb(v)	91
39) Hexane	9.292	56	102511	9.24	ppb(v)	99
40) cis-1,2-Dichloroethene	11.237	61	167314	8.31	ppb(v)	98
41) Di-isopropyl Ether	10.075	87	101949	8.80	ppb(v)	93
42) Ethyl Acetate	11.922	61	41855	9.75	ppb(v)	95
43) Methyl Acrylate	11.935	55	210694	8.36	ppb(v)	98
44) Chloroform	11.720	83	271146	8.43	ppb(v)	99
45) 2,4-Dimethylpentane	10.368	57	212723	8.26	ppb(v)	99
46) Tetrahydrofuran	12.014	72	56667	8.57	ppb(v)	91
47) 1,1,1-Trichloroethane	12.100	97	261033	8.50	ppb(v)	100
48) 1,2-Dichloroethane	13.079	62	143688	8.18	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43603.D
 Acq On : 21 Apr 2021 11:17 am
 Operator : benk
 Sample : icv1785-10
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 21 16:34:47 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.748	78	388500	8.70	ppb(v)	98
50) Carbon Tetrachloride	11.990	117	291143	8.85	ppb(v)	100
51) Cyclohexane	11.635	56	179612	8.05	ppb(v)	98
52) 2,3-Dimethylpentane	11.806	71	82684	9.23	ppb(v)	97
54) 2,2,4-Trimethylpentane	12.528	57	561440	8.07	ppb(v)	99
55) Heptane	12.699	71	123935	8.65	ppb(v)	97
56) Trichloroethene	13.764	97	119337	8.65	ppb(v)	95
57) 1,2-Dichloropropane	14.657	63	149704	8.45	ppb(v)	98
58) Dibromomethane	14.486	174	195941	9.34	ppb(v)	93
59) Ethyl Acrylate	14.651	55	278360	8.67	ppb(v)	98
60) Methyl Methacrylate	15.006	69	140164	9.08	ppb(v)	93
61) 1,4-Dioxane	15.091	88	83651	7.50	ppb(v)	92
62) Bromodichloromethane	14.761	83	293117	8.53	ppb(v)	99
63) cis-1,3-Dichloropropene	15.868	75	251388	8.62	ppb(v)	97
64) 4-Methyl-2-pentanone	16.951	58	125266	9.04	ppb(v)	94
65) trans-1,3-Dichloropropene	17.031	75	217488	8.18	ppb(v)	98
66) Toluene	16.309	91	465455	8.05	ppb(v)	99
67) 1,1,2-Trichloroethane	17.324	97	174905	8.89	ppb(v)	98
68) 1,3-Dichloropropane	17.832	76	228323	8.90	ppb(v)	96
69) 2-Hexanone	18.481	43	288489	8.28	ppb(v)	99
70) Ethyl Methacrylate	17.294	69	243057	9.72	ppb(v)	98
71) Dibromochloromethane	17.673	129	333827	9.41	ppb(v)	100
72) Tetrachloroethene	17.031	166	241798	9.00	ppb(v)	98
73) 1,2-Dibromoethane	18.126	107	280077	9.06	ppb(v)	98
74) Octane	15.972	43	263936	8.32	ppb(v)	91
75) 1,1,1,2-Tetrachloroethane	19.190	131	211182	9.01	ppb(v)	98
77) Chlorobenzene	19.086	112	360329	8.83	ppb(v)	98
78) Ethylbenzene	19.123	91	575973	8.71	ppb(v)	99
79) m,p-Xylene	19.374	91	861942	17.66	ppb(v)	98
80) Styrene	20.157	104	329783	9.07	ppb(v)	99
81) Nonane	18.939	43	312364	8.61	ppb(v)	99
82) o-Xylene	20.077	91	432767	8.66	ppb(v)	100
83) Bromoform	20.206	173	305217	9.39	ppb(v)	99
84) 1,1,2,2-Tetrachloroethane	21.240	83	354545	8.50	ppb(v)	100
85) 1,2,3-Trichloropropane	21.441	75	253993	8.36	ppb(v)	98
86) Isopropylbenzene	20.561	105	623302	9.20	ppb(v)	100
87) Bromobenzene	21.142	156	218789	9.97	ppb(v)	93
88) 2-Chlorotoluene	21.393	126	159929	9.58	ppb(v)	100
89) n-Propylbenzene	21.166	120	173767	9.93	ppb(v)	95
91) 4-Ethyltoluene	21.313	105	601132	9.52	ppb(v)	100
92) 1,3,5-Trimethylbenzene	21.429	105	486221	9.44	ppb(v)	100
93) alpha-Methylstyrene	21.772	118	251147	9.80	ppb(v)	99
94) tert-Butylbenzene	21.870	134	111638	9.69	ppb(v)	96
95) 1,2,4-Trimethylbenzene	21.955	105	468761	9.47	ppb(v)	99
96) 1,3-Dichlorobenzene	22.396	146	330941	9.90	ppb(v)	99
97) 1,2,3-trimethylbenzene	22.518	105	446824	9.06	ppb(v)	100
98) Benzyl Chloride	22.800	126	93161	10.27	ppb(v)	89
99) 1,4-Dichlorobenzene	22.506	146	330416	10.22	ppb(v)	99
100) sec-Butylbenzene	22.102	134	139947	9.50	ppb(v)	97
101) p-Isopropyltoluene	22.280	134	153207	9.72	ppb(v)	98
102) 1,2-Dichlorobenzene	23.026	146	309678	9.61	ppb(v)	100
103) n-Butylbenzene	22.806	134	135761	9.63	ppb(v)	94
104) Hexachloroethane	23.014	201	205969	10.33	ppb(v)	98
105) 1,2,4-Trichlorobenzene	24.831	180	153511	9.46	ppb(v)	99
106) Naphthalene	25.271	128	286760	9.96	ppb(v)	99
107) Hexachlorobutadiene	24.776	225	195296	8.55	ppb(v)	99
109) TVHC as equiv Pentane	6.471	TIC	1253767	10.11	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43603.D
Acq On : 21 Apr 2021 11:17 am
Operator : benk
Sample : icv1785-10
Misc : ms49231,v5w1785,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 21 16:34:47 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration

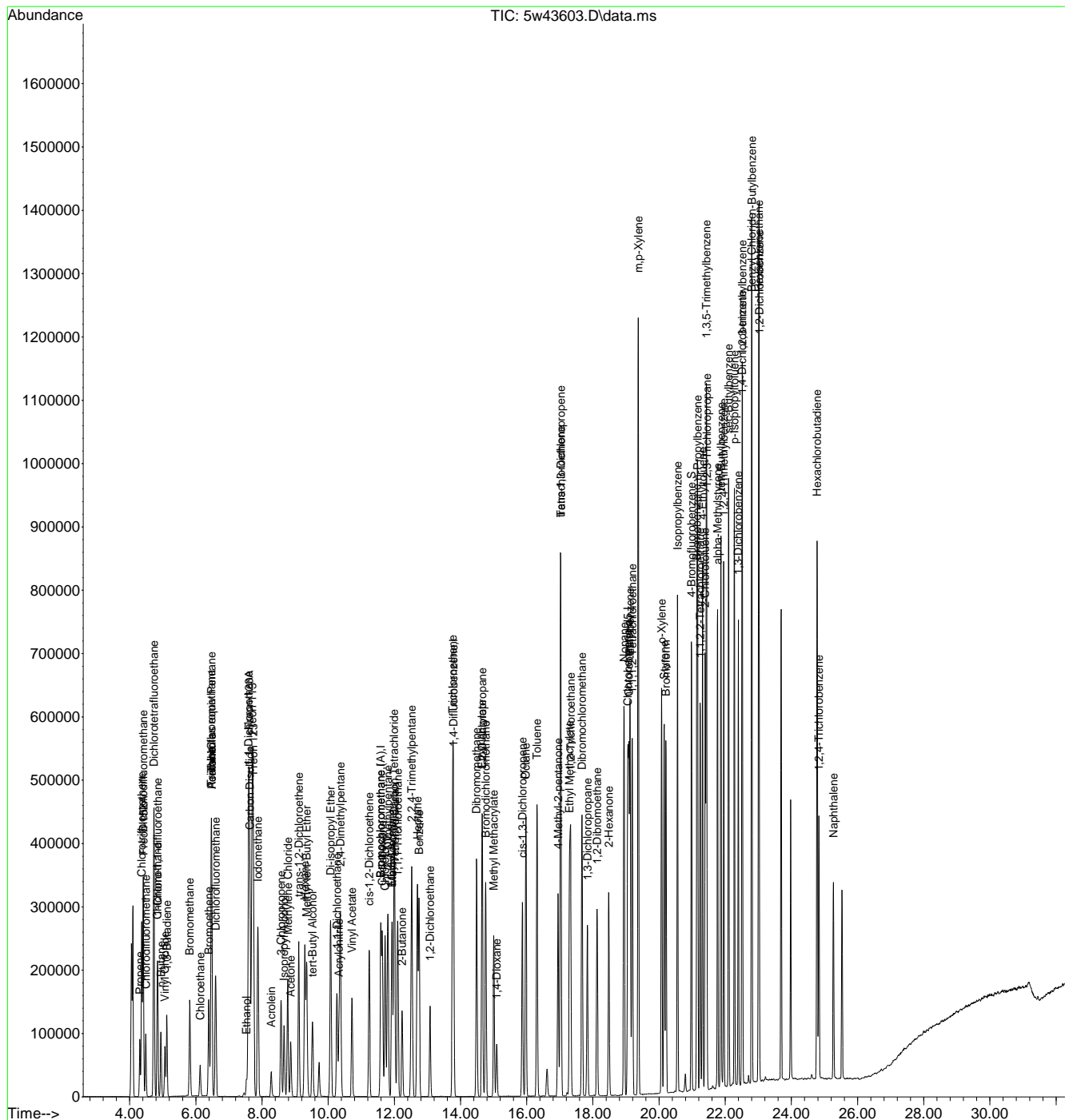
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43603.D
 Acq On : 21 Apr 2021 11:17 am
 Operator : benk
 Sample : icv1785-10
 Misc : ms49231,v5w1785,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 21 16:34:47 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration



7.7.19
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43868.D
 Acq On : 25 May 2021 8:01 am
 Operator : thomash
 Sample : cc1785-10
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:38:38 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	11.574	130	120501	10.00	ppb(v)	-0.02
53) 1,4-Difluorobenzene	13.770	114	430638	10.00	ppb(v)	-0.02
76) Chlorobenzene-d5	19.031	82	194411	10.00	ppb(v)	-0.02
108) Bromochloromethane (A)	11.574	130	120501	10.00	ppb(v)	-0.02
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.958	95	247191	10.27	ppb(v)	-0.02
Spiked Amount	10.000	Range 65 - 128	Recovery	=	102.70%	
Target Compounds						
						Qvalue
2) Freon 152A	4.416	65	64985	10.56	ppb(v)	97
3) Chlorodifluoromethane	4.483	67	25534	11.51	ppb(v)	100
4) Propene	4.306	41	62847	10.55	ppb(v)	99
5) Chlorotrifluoroethene	4.361	116	176079	9.29	ppb(v)	96
6) Dichlorodifluoromethane	4.410	85	296850	9.44	ppb(v)	100
7) 1-Chloro-1,1-difluoro...	4.838	65	192327	10.14	ppb(v)	98
8) Chloromethane	4.838	50	88683	10.12	ppb(v)	100
9) Dichlorotetrafluoroethane	4.728	85	327902	9.61	ppb(v)	96
10) Vinyl Chloride	5.064	62	111678	10.21	ppb(v)	99
11) 1,3-Butadiene	5.120	54	79570	10.95	ppb(v)	98
12) n-Butane	4.942	58	16268	11.99	ppb(v)	94
13) Bromomethane	5.811	94	146897	9.52	ppb(v)	98
14) Chloroethane	6.123	64	62462	11.01	ppb(v)	99
15) Dichlorofluoromethane	6.588	67	275214	9.15	ppb(v)	99
16) Acetonitrile	6.472	41	93009	10.37	ppb(v)	96
17) Freon 123	7.726	83	288350	8.98	ppb(v)	99
18) Freon 123A	7.597	117	145822	8.74	ppb(v)	96
19) Bromoethene	6.386	106	130836	8.85	ppb(v)	99
20) Acrolein	8.264	56	45477	9.18	ppb(v)	99
21) Trichlorofluoromethane	6.459	101	310951	8.99	ppb(v)	99
22) Acetone	8.845	58	49218	9.36	ppb(v)	93
23) Pentane	6.472	57	29762	9.88	ppb(v)	85
24) Iodomethane	7.866	142	382609	8.55	ppb(v)	97
25) Isopropyl Alcohol	8.643	43	32863	9.25	ppb(v)	100
26) 1,1-Dichloroethene	7.585	61	188735	9.51	ppb(v)	96
27) Freon 113	7.695	101	286017	8.97	ppb(v)	97
28) Methylene Chloride	8.760	84	115429	8.44	ppb(v)	96
29) Carbon Disulfide	7.628	76	353071	9.02	ppb(v)	100
30) Ethanol	7.512	45	46464	9.05	ppb(v)	99
31) Acrylonitrile	10.301	53	91911	9.18	ppb(v)	99
32) 3-Chloropropene	8.564	76	58869	9.68	ppb(v)	94
33) trans-1,2-Dichloroethene	9.096	61	169831	9.13	ppb(v)	97
34) tert-Butyl Alcohol	9.506	59	231820	8.91	ppb(v)	98
35) Methyl tert-Butyl Ether	9.335	73	323919	8.55	ppb(v)	97
36) Vinyl Acetate	10.699	43	303857	9.29	ppb(v)	99
37) 1,1-Dichloroethane	10.246	63	216864	9.10	ppb(v)	100
38) 2-Butanone	12.210	72	56155	10.38	ppb(v)	99
39) Hexane	9.286	56	96535	9.67	ppb(v)	95
40) cis-1,2-Dichloroethene	11.219	61	168562	9.31	ppb(v)	98
41) Di-isopropyl Ether	10.057	87	96542	9.27	ppb(v)	84
42) Ethyl Acetate	11.898	61	38058	9.86	ppb(v)	96
43) Methyl Acrylate	11.916	55	208201	9.18	ppb(v)	99
44) Chloroform	11.702	83	267084	9.22	ppb(v)	99
45) 2,4-Dimethylpentane	10.356	57	209461	9.04	ppb(v)	99
46) Tetrahydrofuran	11.990	72	59351	9.98	ppb(v)	99
47) 1,1,1-Trichloroethane	12.082	97	253124	9.16	ppb(v)	99
48) 1,2-Dichloroethane	13.060	62	145941	9.23	ppb(v)	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w43868.D
 Acq On : 25 May 2021 8:01 am
 Operator : thomash
 Sample : cc1785-10
 Misc : ms51023,v5w1802,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:38:38 2021
 Quant Method : C:\msdchem\1\methods\m5w1785.M
 Quant Title : TO-15 Full Scan Mode
 QLast Update : Wed Apr 21 14:09:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Benzene	12.730	78	377018	9.38	ppb(v)	99
50) Carbon Tetrachloride	11.977	117	278544	9.41	ppb(v)	98
51) Cyclohexane	11.623	56	177750	8.86	ppb(v)	99
52) 2,3-Dimethylpentane	11.788	71	81263	10.08	ppb(v)	99
54) 2,2,4-Trimethylpentane	12.510	57	563965	8.51	ppb(v)	99
55) Heptane	12.681	71	120136	8.81	ppb(v)	98
56) Trichloroethene	13.746	97	116208	8.85	ppb(v)	98
57) 1,2-Dichloropropane	14.639	63	147213	8.73	ppb(v)	97
58) Dibromomethane	14.467	174	180447	9.04	ppb(v)	97
59) Ethyl Acrylate	14.626	55	278636	9.12	ppb(v)	98
60) Methyl Methacrylate	14.987	69	138318	9.41	ppb(v)	94
61) 1,4-Dioxane	15.073	88	87298	8.22	ppb(v)	95
62) Bromodichloromethane	14.743	83	292600	8.95	ppb(v)	99
63) cis-1,3-Dichloropropene	15.850	75	232654	8.38	ppb(v)	98
64) 4-Methyl-2-pentanone	16.921	58	117164	8.88	ppb(v)	92
65) trans-1,3-Dichloropropene	17.006	75	210293	8.31	ppb(v)	98
66) Toluene	16.290	91	450749	8.19	ppb(v)	99
67) 1,1,2-Trichloroethane	17.300	97	169262	9.04	ppb(v)	98
68) 1,3-Dichloropropane	17.808	76	217830	8.92	ppb(v)	95
69) 2-Hexanone	18.456	43	256204	7.73	ppb(v)	96
70) Ethyl Methacrylate	17.269	69	226091	9.50	ppb(v)	98
71) Dibromochloromethane	17.649	129	322409	9.55	ppb(v)	100
72) Tetrachloroethene	17.006	166	247618	9.69	ppb(v)	99
73) 1,2-Dibromoethane	18.101	107	277217	9.42	ppb(v)	99
74) Octane	15.960	43	269862	8.94	ppb(v)	93
75) 1,1,1,2-Tetrachloroethane	19.166	131	214891	9.63	ppb(v)	98
77) Chlorobenzene	19.068	112	369663	9.32	ppb(v)	97
78) Ethylbenzene	19.105	91	573306	8.92	ppb(v)	99
79) m,p-Xylene	19.349	91	857086	18.06	ppb(v)	98
80) Styrene	20.132	104	337274	9.54	ppb(v)	99
81) Nonane	18.921	43	275930	7.82	ppb(v)	95
82) o-Xylene	20.059	91	430854	8.87	ppb(v)	100
83) Bromoform	20.187	173	309856	9.80	ppb(v)	99
84) 1,1,2,2-Tetrachloroethane	21.221	83	365524	9.02	ppb(v)	100
85) 1,2,3-Trichloropropane	21.423	75	271739	9.20	ppb(v)	99
86) Isopropylbenzene	20.542	105	609477	9.25	ppb(v)	99
87) Bromobenzene	21.123	156	214211	10.04	ppb(v)	99
88) 2-Chlorotoluene	21.374	126	156676	9.65	ppb(v)	94
89) n-Propylbenzene	21.148	120	165894	9.75	ppb(v)	99
91) 4-Ethyltoluene	21.301	105	587875	9.58	ppb(v)	100
92) 1,3,5-Trimethylbenzene	21.411	105	468564	9.36	ppb(v)	98
93) alpha-Methylstyrene	21.754	118	248115	9.96	ppb(v)	100
94) tert-Butylbenzene	21.851	134	103537	9.25	ppb(v)	93
95) 1,2,4-Trimethylbenzene	21.937	105	456283	9.48	ppb(v)	98
96) 1,3-Dichlorobenzene	22.378	146	329575	10.15	ppb(v)	98
97) 1,2,3-trimethylbenzene	22.506	105	457506	9.54	ppb(v)	98
98) Benzyl Chloride	22.781	126	95095	10.78	ppb(v)	83
99) 1,4-Dichlorobenzene	22.488	146	339766	10.81	ppb(v)	98
100) sec-Butylbenzene	22.090	134	128799	8.99	ppb(v)	99
101) p-Isopropyltoluene	22.261	134	145857	9.52	ppb(v)	98
102) 1,2-Dichlorobenzene	23.008	146	317606	10.14	ppb(v)	97
103) n-Butylbenzene	22.787	134	133675	9.76	ppb(v)	84
104) Hexachloroethane	22.996	201	186625	9.63	ppb(v)	91
105) 1,2,4-Trichlorobenzene	24.812	180	179455	11.37	ppb(v)	98
106) Naphthalene	25.247	128	338125	12.08	ppb(v)	99
107) Hexachlorobutadiene	24.757	225	184885	8.32	ppb(v)	99
109) TVHC as equiv Pentane	6.465	TIC	1183513	10.61	ppb(v)	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43868.D
Acq On : 25 May 2021 8:01 am
Operator : thomash
Sample : cc1785-10
Misc : ms51023,v5w1802,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:38:38 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration

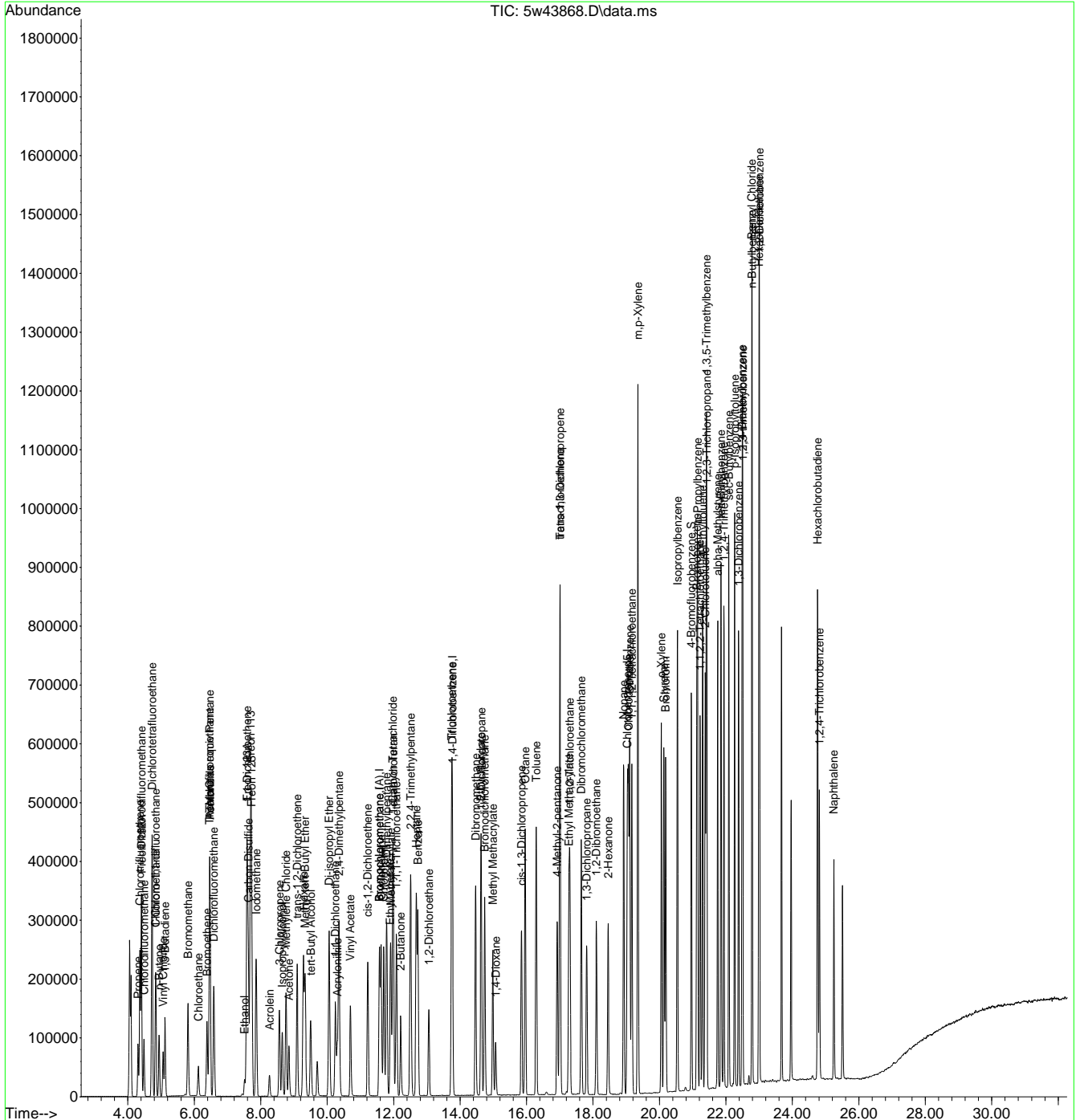
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

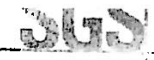
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w43868.D
Acq On : 25 May 2021 8:01 am
Operator : thomash
Sample : cc1785-10
Misc : ms51023,v5w1802,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:38:38 2021
Quant Method : C:\msdchem\1\methods\m5w1785.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Wed Apr 21 14:09:44 2021
Response via : Initial Calibration



7.7.20 7



TO-15

Batch ID: V2W2318

Date: 3/9/21

Analyst Signature: [Signature]

AS Data Method: T015, 7200A, CTO

Columns: DB-3omx0.25mmx0.175
Method: ZW2015
Seq. File: 20210305.S
Initial Cal. Method: V2W2318

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9122	To15 Std	100 ppb
AS9121	To15 Std (A974)	40 ppb
AS9099	To15 Std (A970)	1.0 ppb
AS9123	To15 Std (A970)	1.0 ppb

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: [Signature] Date: 3/9/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surf	Status Data	Comments
1	2W52191	BF0		open	400						
2	2W52192	CC2310-10		A974	100						
1	2W52193	BF0		open	400						fails, Jcal
2	2W52194	IC2318-10		A974	100						Time 10/3
3	2W52195	IB		A963	100						
4	2W52196	IC2318-0.5		A980	200						
4	2W52197	IC2318-0.2		A980	80						
4	2W52198	IC2318-0.5		A980	200						Re-make Std using A5912
4	2W52199	IC2318-0.2		A980	80						
4	2W52200	IC2318-0.1		A980	40						
4	2W52201	IC2318-0.04		A980	10						
7	2W52202	IC2318-5		A974	50						
2	2W52203	IC2318-20		A974	200						
2	2W52204	IC2318-40		A974	400						
3	2W52205	IB		A963	100						
4	2W52206	IC2318-10		100	100						
4	2W52207	BS		100	100						V2W2319
4	2W52208	BSO		100	100						
5	2W52209	IB		100	100						
5	2W52210	MB		400	400						
5	2W52211	JD20751-3	V2015	M253	400	1					
5	2W52212	JD20751-3	Behrend	M253	400	1					
6	2W52213	JD20751-1	1134939	A236	400	1					
7	2W52214	JD20751-2		M47	400	1					
8	2W52215	JD20751-4		A656	400	1					
9	2W52216	JD20751-5		A452	400	1					
10	2W52217	JD20751-6		A883	400	1					
11	2W52218	JD21241-10	V2015	A983	20	1					
12	2W52219	JD21241-11	Proons	A679	20	1					too dilute
13	2W52220	JD21241-2	m349354	A124	20	1					

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.



TO-15

Batch ID: V2W2391

Date: 6/9/21

Analyst Signature: [Signature]

Columns: DB-1 90m x 0.25mm x 0.5um

Method: 2WT05

Seq. File: 2W20210602.S

Initial Cal. Method: M2W2310.M

AS Data

Method: 7015, 7200A, CPD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
159188	Int/Scum	100ppbw
A59215	7015 STD (A965)	1/3ppbw

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: [Signature]

Date: 6/9/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W53948	BFB		25.6m	400					RR	
2	2W53949	CC2318-10 BFB		A965	100					OK	BFB time 7:32AM
2	2W53950	CC2318-10		A965	100			✓	✓	OK	
2	2W53951	BS		A965	100			✓	✓	OK	
2	2W53952	BSD		A965	100			✓	✓	OK	
3	2W53953	IB		A963	100					-	
3	2W53954	MB		A963	400		+	✓	✓	OK	
4	2W53955	SCC CP11223		M465	100			✓	✓	OK	
5	2W53956	SCC CP11222		A1029	400			✓	✓	OK	
6	2W53957	SCC CP11224		A996	400			✓	✓	OK	
7	2W53958	JD26149-1	STD MAP MS 51317	M1156	100	1		✓	✓	OK	
7	2W53959	JD26149-1 DUP	✓	M1156	100	1		✓	✓	OK	
8	2W53960	JD26114-1	MSVCL MS 51416	M422	100	1		✓	✓	OK	
9	2W53961	JD26072-1	STD + MS 51317	M053	400	1	+	✓	✓	OK	
10	2W53962	JD26087-1	STD MS 51317	A070	400	1		✓	✓	OK	
11	2W53963	JD26150-1	STD MS 51317	M152	400	1		✓	✓	OK	
11	2W53964	JD26150-1	✓	M152	20	1				RR	ERR#7: TIMED OUT
12	2W53965	JD26206-1	STD MS 51458	M013	400	1				RR	Sampling timed out
13	2W53966	JD26206-2	✓	M111	400	1		✓	✓	RR	ERR#7: TIMED OUT
14	2W53967	JD26206-3	✓	A745	400	1				RR	Sample timed out
15	2W53968	IFB		A852	100	1				-	
15	2W53968	SCC CP11205		A852	400	1				NG	TEST NEW 06/09
12	2W53970	JD2606-1	STD MS 51458	M013	400	1				RR	ERR#7: TIMED OUT
11	2W53971	JD2606-3	✓	A745	400	1		✓	✓	OK	
12	2W53972	JD2606-1	✓	M013	720	1.80		✓	✓	OK	
TH 6/10/21											

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.



7.8.2
7



TO-15

Batch ID: V5W1785

Date: 4/20/21

Analyst Signature: *[Signature]*
Columns: 15xVMS 6mmx0.25um X
Method: SWTOLST 1.4um
Seq. File: SW20210420
Initial Cal. Method: M5W1785

AS Data

Method: VOI (E, CTD)

Standard Data

Lot #	Description	Conc.
AS9181	TOLCS (A974)	40ppb

Standard Data

Lot #	Description	Conc.
AS9162	Int/Samp	100ppb
AS9175	TO15 SH (A971)	40ppb
AS9176	TO15 SH (A980)	1.0ppb
AS9162	TO15 CS (A977)	40ppb

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: *[Signature]* Date: 4/22/2021

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	FICS	Int. STD Areas	Surr	Status Data	Comment
3	SW43590	IB		A958							
1	SW43591	BFB		A980						OK	file 1458
1	SW43592	IC1785-0.04		A980	16			✓	✓	OK	
1	SW43593	IC1785-0.1		A980	40			✓	✓	OK	
1	SW43594	IC1785-0.2		A980	80			✓	✓	OK	
1	SW43595	IC1785-0.5		A980	200			✓	✓	OK	
2	SW43596	IC1785-5		A971	50			✓	✓	OK	
2	SW43597	IC1785-10		A971	100			✓	✓	OK	
2	SW43598	IC1785-20		A971	200			✓	✓	OK	
2	SW43599	IC1785-40		A971	400			✓	✓	OK	
3	SW43600	IB		A958	100						
4	SW43601	ICV1785-10		A977	100					BT	Fails low, acceptable CS
3	SW43602	IB		A958	100						
4	SW43603	ICV1785-10		A974	100			✓	✓	OK	
	604										

[Signature] 4/20/21

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.



7.8.3
7



TO-15

Batch ID: V5W1802

Date: 5/25/21

Analyst Signature: [Signature]

AS Data Method: TO15, CTD3

Columns: RTX VMS 60m non-polar, 1.5m 50/50
Method: SWP15A
Seq. File: SW20210525.S
Initial Cal. Method: MSW1785.1

Standard Data table with columns: Lot #, Description, Conc.

Standard Data table with columns: Lot #, Description, Conc. (containing handwritten entries)

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the cr of SGS SOP EQA044.

Supervisor Signature: [Signature] Date: 5/27/2021

Main data table with columns: AS #, Data File, Sample ID, TEST, Canister Serial #, Vol Sample, Dil Fact, TICS, Int. STD Areas, Surr, Status Data, Commer. (containing extensive handwritten data)

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

